

STANDARD PULSER CAP, Model: MXD-AS



MXD-AS provides pulse output from 1 x Reed switch and 1 x Hall Effect sensors.



Construction	MXD-AS
Material	Polypropylene
Housing Type	Standard
IP rating	IP67
Mounting	Meter Mounted (MX only)
Cable Length ¹	1 meter (non-removable)
Cable Termination	Stripped Leads (crimped with Boot lace pins)

¹Extended cable may be available, contact Machaught

Technical Specifications	MXD-AS
Signal outputs	Reed switch (2-wire) Maximum voltage: 30 VDC Maximum current: 500mA Maximum power: 10 Watt Hall effect sensor (3-wire) Type: Open collector - NPN Operating voltage: 4.5 to 24 VDC Maximum supply current: 7.5 mA Maximum output current: 25 mA
Temperature ²	-40°C to 120°C -40°F to 248°F
Ex Approvals	No

⁴Refer to flow meter's specifications for overall temperature range

Application:

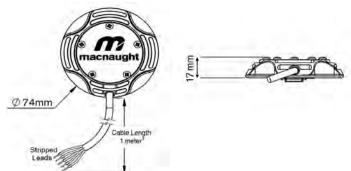
MXD-AS can be mounted on MX blind flow meters. It generates non-scalable pulse output from 1 x Reed switch and 1 x Hall Effect sensors.



	Packaging	MXD-AS
9.	Weight (kg)	0.5 kg
8	Dimensions (mm) L x W x H	220 x 240 x 40

C	MXD-AS
Service Kits	PCB Board: MXS-PCB-RH

Dimensions







STANDARD PULSER CAP, Model: MXD-IS

YEARS MACNAUGHT WARRANTY

MXD-IS provides pulse output from 2 x Reed switches.



Construction	MXD-IS
Material	Polypropylene
Housing Type	Standard
IP rating	IP67
Mounting	Meter Mounted (MX only)
Cable Length ¹	1 meter (non-removable)
Cable Termination	Stripped Leads (crimped with Boot lace pins)

¹Extended cable may be available, contact Macnaught

Technical Specifications	MXD-IS
Signal outputs	Reed switch (2-wire) Maximum voltage: 30 VDC Maximum current: 500mA Maximum power: 10 Watt
Temperature ²	-40°C to 120°C -40°F to 248°F
Ex Approvals	No

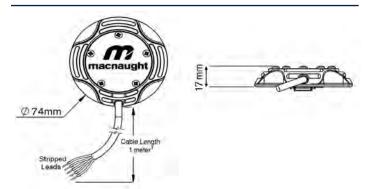
²Refer to flow meter's specifications for overall temperature range

Application:

MXD-IS can be mounted on MX blind flow meters. It generates non-scalable pulse output from 2 x Reed switches.



Dimensions



Packaging	MXD-IS
Weight (kg)	0.5 kg
Dimensions (mm) L x W x H	220 x 240 x 40

C	MXD-IS
Service Kits	PCB Board: MXS-PCB-RR





STANDARD PULSER CAP, Model: MXD-JS

YEARS MACNAUGHT WARRANTY

MXD-JS provides pulse output from 2 x Hall Effect sensors.



Construction	MXD-JS
Material	Polypropylene
Housing Type	Standard
IP rating	IP67
Mounting	Meter Mounted (MX only)
Cable Length ¹	1 meter (non-removable)
Cable Termination	Stripped Leads (crimped with Boot lace pins)

¹Extended cable may be available, contact Machaught

Technical Specifications	MXD-JS
Signal outputs	Hall effect sensor (3-wire) Type: Open collector - NPN Operating voltage: 4.5 to 24 VDC Maximum supply current: 7.5 mA Maximum output current: 25 mA
Temperature ²	-40°C to 120°C -40°F to 248°F
Ex Approvals	No

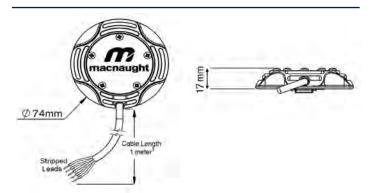
²Refer to flow meter's specifications for overall temperature range

Application:

MXD-JS can be mounted on MX blind flow meters. It generates non-scalable pulse output from 2 x Hall Effect sensors.



Dimensions



Packaging	MXD-JS
Weight (kg)	0.5 kg
Dimensions (mm) L x W x H	220 x 240 x 40

C	MXD-JS
Service Kits	PCB Board: MXS-PCB-HH





INDUSTRIAL PULSER CAP, Model: MXD-ACM-RH

Industrial pulse caps are machined from solid billet and designed to offer ultimate mechanical protection in those applications where harsh operating conditions are to be expected.

With IP67 rating, the cable gland entry port enable the installation of 'armoured conduit' to provide further protection to signal cables.

MXD-ACM-RH provides pulse output from 1 x Reed switch and 1 x Hall Effect sensors.



Construction	MXD-ACM-RH
Material	Aluminium 6061
Housing Type	Industrial
IP rating	IP67
Mounting	Meter Mounted (MX only)
Cable Termination	Terminal Block, mounted on PCB
Conduit Size	M20 x 1.5

Technical Specifications	MXD-ACM-RH
Signal outputs	Reed switch (2-wire) Maximum voltage: 30 VDC Maximum current: 500mA Maximum power: 10 Watt Hall effect sensor (3-wire) Type: Open collector - NPN Operating voltage: 4.5 to 24 VDC Maximum supply current: 7.5 mA Maximum output current: 25 mA
Temperature ¹	-25°C to 120°C -13°F to 248°F
Ex Approvals	No

¹Refer to flow meter's specifications for overall temperature range.

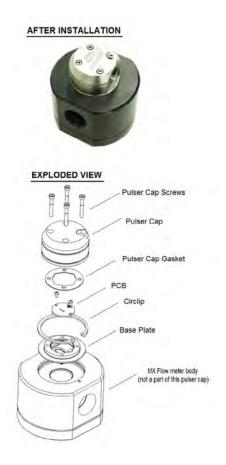
Application:

MXD-ACM-RH can be mounted on MX flow meters. It generates non-scalable pulse output from 1 x Reed switch and 1 x Hall Effect sensors.



Macnaught Pty Ltd 41-49 Henderson St, Turrella NSW 2205. Australia Ph: +61 2 9567 0401 Fax: +61 2 9597 7773 Email: info@macnaught.com Website: macnaught.com

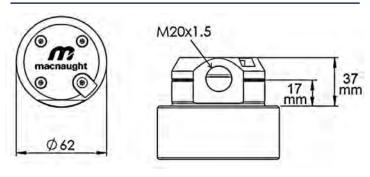






Packaging	MXD-ACM-RH
Weight (kg)	0.5 kg
Dimensions (mm) L x W x H	340 x 240 x 120

Dimensions



Ordering Code							
MXD	MX Series Cap						
	-	- Separator					
		Α	Hou	Housing Material: Aluminium 6061			
		S	Hou	Housing Material: Stainless Steel 316			
			СМ	CM Conduit size: M20 x 1.5			
			CN	CN Conduit size: 1/2" NPT			
				-	Sepai	rator	
				RH 1 x Reed and 1 x Hall Effect sensors			
				RR 2 x Reed sensors			
					НН	2 x Hall Effect sensors	
MXD	-	S	CM	-	RH		

Example Part Number: MXD-SCM-RH





INDUSTRIAL PULSER CAP, Model: MXD-ACN-RH

Industrial pulse caps are machined from solid billet and designed to offer ultimate mechanical protection in those applications where harsh operating conditions are to be expected.

With IP67 rating, the cable gland entry port enable the installation of 'armoured conduit' to provide further protection to signal cables.

MXD-ACN-RH provides pulse output from 1 x Reed switch and 1 x Hall Effect sensors.



Construction	MXD-ACN-RH
Material	Aluminium 6061
Housing Type	Industrial
IP rating	IP67
Mounting	Meter Mounted (MX only)
Cable Termination	Terminal Block, mounted on PCB

Technical Specifications	MXD-ACN-RH
Signal outputs	Reed switch (2-wire) Maximum voltage: 30 VDC Maximum current: 500mA Maximum power: 10 Watt Hall effect sensor (3-wire) Type: Open collector - NPN Operating voltage: 4.5 to 24 VDC Maximum supply current: 7.5 mA Maximum output current: 25 mA
Temperature ¹	-25°C to 120°C -13°F to 248°F
Ex Approvals	No

¹Refer to flow meter's specifications for overall temperature range.

Application:

MXD-ACN-RH can be mounted on MX flow meters. It generates non-scalable pulse output from 1 x Reed switch and 1 x Hall Effect sensors.



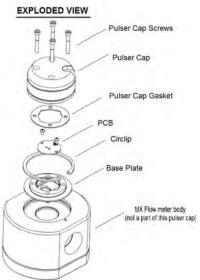
Conduit Size

Macnaught Pty Ltd 41-49 Henderson St, Turrella NSW 2205. Australia **Ph:** +61 2 9567 0401 **Fax:** +61 2 9597 7773 **Email:** info@macnaught.com **Website:** macnaught.com

1/2" NPT



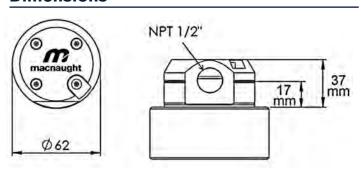






Packaging	MXD-ACN-RH
Weight (kg)	0.5 Kg
Dimensions (mm) L x W x H	340 x 240 x 120

Dimensions



Ordering Code								
MXD	D MX Series Cap							
	- Separator							
		Α	Hou	sing	Mater	ial: Aluminium 6061		
		S	Hou	Housing Material: Stainless Steel 316				
			CM Conduit size: M20 x 1.5					
			CN	CN Conduit size: 1/2" NPT				
				-	Sepai	rator		
				RH 1 x Reed and 1 x Hall Effect sensors				
			RR 2 x Reed sensors					
					НН	2 x Hall Effect sensors		
MXD	-	S	СМ	-	RH			

Example Part Number: MXD-SCM-RH





INDUSTRIAL PULSER CAP, Model: MXD-SCM-RH

Industrial pulse caps are machined from solid billet and designed to offer ultimate mechanical protection in those applications where harsh operating conditions are to be expected.

With IP67 rating, the cable gland entry port enable the installation of 'armoured conduit' to provide further protection to signal cables.

MXD-SCM-RH provides pulse output from 1 x Reed switch and 1 x Hall Effect sensors.



Construction	MXD-SCM-RH
Material	Stainless Steel 316
Housing Type	Industrial
IP rating	IP67
Mounting	Meter Mounted (MX only)
Cable Termination	Terminal Block, mounted on PCB

Technical Specifications	MXD-SCM-RH
Signal outputs	Reed switch (2-wire) Maximum voltage: 30 VDC Maximum current: 500mA Maximum power: 10 Watt Hall effect sensor (3-wire) Type: Open collector - NPN Operating voltage: 4.5 to 24 VDC Maximum supply current: 7.5 mA Maximum output current: 25 mA
Temperature ¹	-25°C to 120°C -13°F to 248°F
Ex Approvals	No

¹Refer to flow meter's specifications for overall temperature range.

Application:

MXD-SCM-RH can be mounted on MX flow meters. It generates non-scalable pulse output from 1 x Reed switch and 1 x Hall Effect sensors.



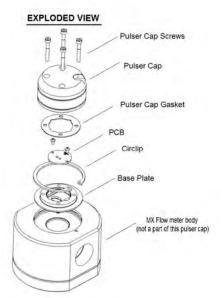
Conduit Size

Macnaught Pty Ltd 41-49 Henderson St, Turrella NSW 2205. Australia **Ph:** +61 2 9567 0401 **Fax:** +61 2 9597 7773 **Email:** info@macnaught.com **Website:** macnaught.com

M20 x 1.5





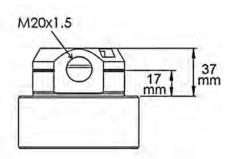




Packaging	MXD-SCM-RH
Weight (kg)	1 kg
Dimensions (mm) L x W x H	340 × 240 × 120

Dimensions





	Ordering Code							
MXD	MX Series Cap							
	-	Sepa	arator					
		Α	Hou	Housing Material: Aluminium 6061				
		S	Hou	Housing Material: Stainless Steel 316				
			СМ	CM Conduit size: M20 x 1.5				
			CN	CN Conduit size: 1/2" NPT				
				-	Separ	rator		
					RH	1 x Reed and 1 x Hall Effect sensors		
				RR 2 x Reed sensors				
					НН	2 x Hall Effect sensors		
MXD	-	S	CM	-	RH			

Example Part Number: MXD-SCM-RH





INDUSTRIAL PULSER CAP, Model: MXD-SCN-RH

MXD-SCN-RH

Reed switch (2-wire)

Industrial pulse caps are machined from solid billet and designed to offer ultimate mechanical protection in those applications where harsh operating conditions are to be expected.

With IP67 rating, the cable gland entry port enable the installation of 'armoured conduit' to provide further protection to signal cables.

MXD-SCN-RH provides pulse output from 1 x Reed switch and 1 x Hall Effect sensors.



		Signal outputs	Maximum voltage: 30 VDC Maximum current: 500mA Maximum power: 10 Watt Hall effect sensor (3-wire) Type: Open collector - NPN Operating voltage: 4.5 to 24 VDC Maximum supply current: 7.5 mA Maximum output current: 25 mA
		Temperature ¹	-25°C to 120°C -13°F to 248°F
		Ex Approvals	No
Construction	MXD-SCN-RH	¹ Refer to flow meter's	specifications for overall temperature rang

Construction	MXD-SCN-RH
Material	Stainless Steel 316
Housing Type	Industrial
IP rating	IP67
Mounting	Meter Mounted (MX only)
Cable Termination	Terminal Block, mounted on PCB
Conduit Size	1/2" NPT

Application:

Technical

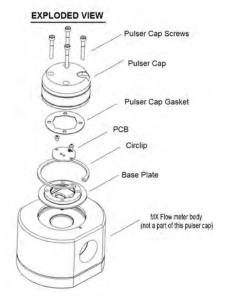
Specifications

MXD-SCN-RH can be mounted on MX flow meters. It generates non-scalable pulse output from 1 x Reed switch and 1 x Hall Effect sensors.





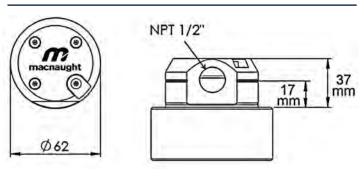






Packaging	MXD-SCN-RH
Weight (kg)	1 Kg
Dimensions (mm) L x W x H	340 × 240 × 120

Dimensions



Ordering Code						
MXD	MX	Serie	s Cap			
	-	Sepa	arator			
		Α	Hou	sing	Mater	ial: Aluminium 6061
		S	Hou	sing	Mater	ial: Stainless Steel 316
			CM Conduit size: M20 x 1.5			
			CN	Cor	nduit s	ize: 1/2" NPT
				-	Separ	rator
			RH 1 x Reed and 1 x Hall Effect sensors			
			RR 2 x Reed sensors			
					НН	2 x Hall Effect sensors
MXD	-	S	CM	-	RH	

Example Part Number: MXD-SCM-RH





DIN COMPACT PULSER CAP, Model: MXD-RH



MXD-RH provides pulse output from 1 x Reed switch and 1 x Hall Effect sensors.



Pulser Module



Construction	MXD-RH
Material	Polypropylene
Housing Type	DIN compact
IP rating	IP67
Mounting	Meter Mounted (MX only)
Cable Length ¹	1.5 meters (DIN cable sold separately)
Cable Termination	Stripped Leads (tinned)

¹Extended cable may be available, contact Macnaught

Technical Specifications	MXD-RH
Signal outputs	Reed switch (2-wire) Maximum voltage: 30 VDC Maximum current: 500mA Maximum power: 10 Watt Hall effect sensor (3-wire) Type: Open collector - NPN Operating voltage: 4.5 to 24 VDC Maximum supply current: 7.5 mA Maximum output current: 25 mA
Temperature ²	-25°C to 80°C -13°F to 176°F
Ex Approvals	No

²Refer to flow meter's specifications for overall temperature range

Application:

MXD-RH can be mounted on MX flow meters. It generates non-scalable pulse output from 1 x Reed switch and 1 x Hall Effect sensors.

Packaging	MXD-RH
Weight (kg)	0.5 kg
Dimensions (mm) L x W x H	220 x 240 x 40

Camalaa Kita	MXD-RH
Service Kits	PCB Board: MXS-PCB-RH





DIN COMPACT PULSER CAP, Model: MXD-RR

2 YEARS MACNAUGHT WARRANTY

MXD-RR provides pulse output from 2 x Reed switches.



Pulser Module



Construction	MXD-RR
Material	Polypropylene
Housing Type	DIN compact
IP rating	IP67
Mounting	Meter Mounted (MX only)
Cable Length ¹	1.5 meters (DIN cable sold separately)
Cable Termination	Stripped Leads (tinned)

¹Extended cable may be available, contact Macnaught

Technical Specifications	MXD-RR
Signal outputs	Reed switch (2-wire) Maximum voltage: 30 VDC Maximum current: 500mA Maximum power: 10 Watt
Temperature ²	-25°C to 80°C -13°F to 176°F
Ex Approvals	No

²Refer to flow meter's specifications for overall temperature range

Application:

MXD-RR can be mounted on MX flow meters. It generates non-scalable pulse output from 2 x Reed switches.

Packaging	MXD-RR
Weight (kg)	0.5 kg
Dimensions (mm) L x W x H	220 x 240 x 40

Camias Vita	MXD-RR
Service Kits	PCB Board: MXS-PCB-RR





HIGH TEMPERATURE PULSER, Model: MXD-TS



MXD-TS is high temperature rated pulser, provides pulse output from 1 x NPN sensor.



Technical Specifications	MXD-TS
Signal outputs	NPN sensor (3-wire) Operating voltage: 4.5 to 30 VDC Maximum supply current: 18mA
Temperature ²	-40°C to 150°C -40°F to 302°F
Ex Approvals	No

²Refer to flow meter's specifications for overall temperature range.

Construction	MXD-TS
Material	Stainless Steel
Housing Type	Barrel
IP rating	IP54
Mounting	Meter Mounted (MX only)
Cable Length ¹	2 meters
Cable Termination	Stripped Leads (tinned)

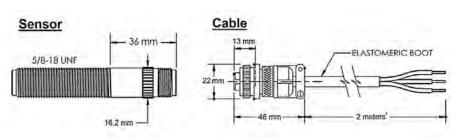
Extended cable may be available, contact Macnaught

Application:

MXD-TS can be mounted on MX flow meters. It generates non-scalable pulse output from 1 x NPN sensor.



Dimensions



Service Kits	MXD-TS
	Sensor Socket Kit: MXS-SOCKET

Packaging	MXD-TS
Weight (kg)	0.5 kg
Dimensions (mm) L x W x H	220 x 240 x 40





DIGITAL DISPLAY, Type: PR, Model: MXD-DS



MXD-DS is a meter mountable digital register with a 12mm LCD display, providing real-time indication of Flow rate, total and accumulated total.



Construction	MXD-DS
Material	Polypropylene
IP rating	IP67
Mounting	Meter Mounted (MX only)
Cable Entry	(2) x M12 * 1.5 1 x cable gland included

LC Display	MXD-DS
Digit Size	Upper LCD 7 Digits (12 mm) Lower LCD 7 Digits (8 mm)
Display	Flow Rate (Various units) Totalizer (Resettable) Batch Totalizer (Resettable) Accumulated Totalizer (Non-Resettable)

Technical Specifications	MXD-DS
Signal inputs	Reed Switch (can be used with battery)
Signal outputs	None
Power supply	Battery: 3.6 V Lithium External: not available
Temperature ¹	-20°C to 80°C -4°F to 176°F
Backup	EEPROM (Flash memory)
Backlight	No
Ex Approvals	No

 $^{^{1}\,\}mbox{Refer}$ to flow meter's specifications for overall temperature range

Display Example







Packaging	MXD-DS
Weight (kg)	0.5 kg
Dimensions (mm) L x W x H	340 x 240 x 140

Service Kits ²	MXD-DS
Battery	Part number: DR012S

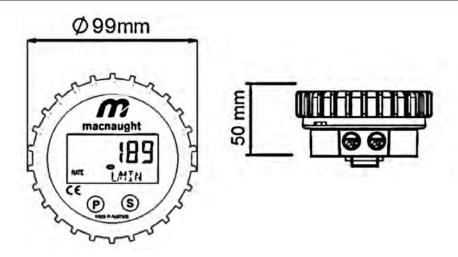
² Refer to Instruction Manual or Contact Macnaught for more service kits

Application:

MXD-DS can be mounted on MX blind flow meters. It shows flow rate and volume on the LC Display.



Dimensions







DIGITAL DISPLAY (with outputs), Type: PRA, Model: MXD-ES

MXD-ES is a meter mountable digital register with a 12mm LCD display, providing real-time indication of Flow rate, total and accumulated total. The output include a 4-20mA, programmable pulse output and High & Low flow alarm functions.





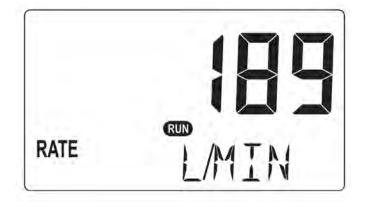
Construction	MXD-ES
Material	Polypropylene
IP rating	IP67
Mounting	Meter Mounted (MX only)
Cable Entry	(2) x M12 * 1.5 1 x cable gland included

LC Display	MXD-ES
Digit Size	Upper LCD 7 Digits (12 mm) Lower LCD 7 Digits (8 mm)
Display	Flow Rate (Various units) Totalizer (Resettable) Batch Totalizer (Resettable) Accumulated Totalizer (Non-Resettable)

Technical Specifications	MXD-ES
Signal inputs	Reed Switch (can be used with battery)
Signal outputs	4-20mA output (Passive, loop powered) Programmable pulse output (Transistor) High flowrate alarm contact (Transistor) Low flowrate alarm contact (Transistor)
Power supply	Battery: 3.6 V Lithium External: 18 - 30 VDC
Temperature ¹	-20°C to 80°C -4°F to 176°F
Backup	EEPROM (Flash memory)
Backlight	No
Ex Approvals	No

¹ Refer to flow meter's specifications for overall temperature range

Display Example







Packaging	MXD-ES
Weight (kg)	0.5 kg
Dimensions (mm) L x W x H	340 x 240 x 140

Service Kits ²	MXD-ES
Battery	Part number: DR012S

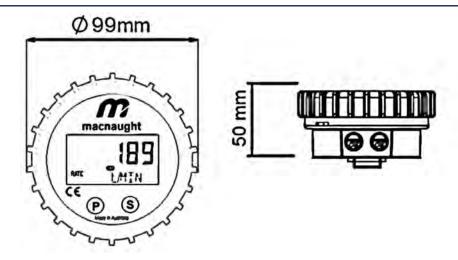
² Refer to Instruction Manual or Contact Macnaught for more service kits

Application:

MXD-ES can be mounted on MX blind flow meters. It shows flow rate and volume on the LC Display. Analog, pulse and alarm options are available as an output.



Dimensions







ANALOG OUTPUT, Model: MXD-MS



MXD-MS is a meter mountable unit, transmitting real-time analog signal (4-20mA) for an equivalent Flow rate.



Construction	MXD-MS
Material	Polypropylene
IP rating	IP67
Mounting	Meter Mounted (MX only)
Cable Entry	(2) x M12 * 1.5 1 x cable gland included

LC Display	MXD-MS
Digit Size	Upper LCD 7 Digits (12 mm) Lower LCD 7 Digits (8 mm) (For Programming only)
Display	None

Technical Specifications	MXD-MS
Signal inputs	Reed Switch
Signal outputs	4-20mA output (Passive, loop powered)
Power supply	External: 18 - 30 V DC
Temperature ¹	-20°C to 80°C -4°F to 176°F
Backup	EEPROM (Flash memory)
Backlight	No
Ex Approvals	No

¹ Refer to flow meter's specifications for overall temperature range

Display Example







Packaging	MXD-MS
Weight (kg)	0.5 kg
Dimensions (mm) L x W x H	340 x 240 x 140

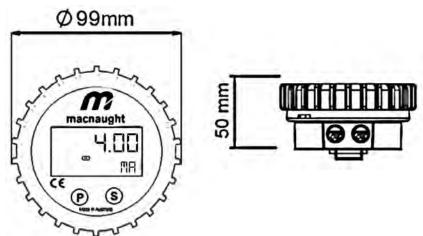
Refer to Instruction Manual or contact Macnaught for service kits

Application:

MXD-MS can be mounted on MX blind flow meters. It transmits analog signal (in the form of 4-20mA) for an equivalent flow rate.



Dimensions







DIGITAL DISPLAY, Model: MXD-GS

MXD-GS is a meter mountable digital register with a 17mm LCD display, providing real-time indication of flow rate, batch total, accumulated total, scaled pulse



FRONT VIEW

and 4-20 mA analogue output.

EXPLODED VIEW





LC Display	MXD-GS
Digital Size	Upper LCD 7 Digits (17mm) Lower LCD 11 Digits (8mm)
Display	Flow Rate (Various units) Batch Total (Resettable) Accumulated Totalizer (Non-Resettable)

Technical Specifications	MXD-GS
Signal inputs	Reed (Can be used with internal battery) Hall Effect - NPN (Requires external power)
Signal outputs	Scaled Pulse, 4-20 mA Output
Power supply	Battery: 3.6 V Lithium External: 16 - 30 VDC
Temperature ¹	-40°C to 80°C -40°F to 176°F
Backup	EEPROM (Flash memory) Data retention at least 10 years
Pass code	Configuration settings can be pass code protected
Backlight	Yes (Requires external power)
Approvals	No

¹Refer to flow meter's specifications for overall temperature range.

Construction	MXD-GS
Material	Aluminium
IP rating	IP67
Mounting	Fixed - Meter Mounted (MX06 and MX09 only)
Cable Entry	(2) x M16 * 1.5 and (1) x M20 x 1.5





Service Kits ₂	MXD-GS
Battery	Part number: MS493S
Sensor Board	Part number: MXS-PCB-RH
Front fascia (including 3 buttons)	Part number: ER002A-CS

Packaging	MXD-GS
Weight (kg)	2 kg
Dimensions (mm) L x W x H	340 x 240 x 340

²Refer to Instruction Manual or Conatct Macnaught for more service kits

Display Example

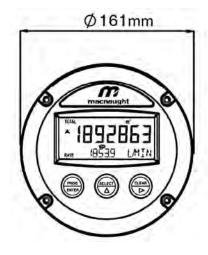


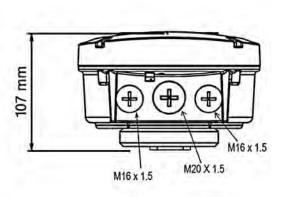
Application:

MXD-**G**S can be mounted on 1/4"-4" size MX flow meters. It shows flow rate and volume on the LC Display.



Dimensions









DIGITAL DISPLAY, Model: MXD-FS

MXD-FS is a meter mountable digital register with a 17mm LCD display, providing real-time indication of flow rate, total and accumulated total.





EXPLODED VIEW





LC Display	MXD-FS
Digital Size	Upper LCD 7 Digits (17mm) Lower LCD 11 Digits (8mm)
Display	Flow Rate (Various units) Totalizer (Resettable) Accumulated Totalizer (Non-Resettable)

Technical Specifications	MXD-FS
Signal inputs	Reed (Can be used with internal battery) Hall Effect - NPN (Requires external power)
Signal outputs	None
Power supply	Battery: 3.6 V Lithium External: 16 - 30 VDC
Temperature ¹	-40°C to 80°C -40°F to 176°F
Backup	EEPROM (Flash memory) Data retention at least 10 years
Pass code	Configuration settings can be pass code protected
Backlight	Yes (Requires external power)
Approvals	No

 ${}^{\scriptscriptstyle 1}\!\text{Refer}$ to flow meter's specifications for overall temperature range.

Construction	MXD-FS
Material	Aluminium
IP rating	IP67
Mounting	Fixed - Meter Mounted (MX06 and MX09 only)
Cable Entry	(2) x M16 * 1.5 and (1) x M20 x 1.5





Service Kits ₂	MXD-FS
Battery	Part number: MS493S
Sensor Board	Part number: MXS-PCB-RH
Front fascia (including 3 buttons)	Part number: ER002A-CS

Packaging	MXD-FS
Weight (kg)	2 kg
Dimensions (mm) L x W x H	340 x 240 x 340

²Refer to Instruction Manual or Conatct Macnaught for more service kits

Display Example

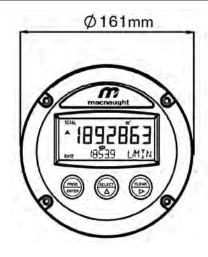


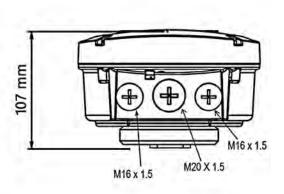
Application:

MXD-FS can be mounted on 1/4" size MX flow meters. It shows flow rate and volume on the LC Display.



Dimensions









DIGITAL DISPLAY, Model: MXD-HS

MXD-HS is a meter mountable digital register with a 17mm LCD display, providing real-time indication of flow rate, batch preset, accumulated total.





EXPLODED VIEW





LC Display	MXD-HS
Digital Size	Upper LCD 7 Digits (17mm) Lower LCD 11 Digits (8mm)
Display	Flow Rate (Various units) Batch Control Accumulated Totalizer (Non-Resettable)

Technical Specifications	MXD-HS
Signal inputs	Reed (Can be used with internal battery) Hall Effect - NPN (Requires external power)
Signal outputs	Batch Control
Power supply	Battery: 3.6 V Lithium External: 16 - 30 VDC
Temperature ¹	-40°C to 80°C -40°F to 176°F
Backup	EEPROM (Flash memory) Data retention at least 10 years
Pass code	Configuration settings can be pass code protected
Backlight	Yes (Requires external power)
Approvals	No

¹Refer to flow meter's specifications for overall temperature range.

Construction	MXD-HS
Material	Aluminium
IP rating	IP67
Mounting	Fixed - Meter Mounted (MX06 and MX09 only)
Cable Entry	(2) x M16 * 1.5 and (1) x M20 x 1.5





Service Kits ₂	MXD-HS
Battery	Part number: MS493S
Sensor Board	Part number: MXS-PCB-RH
Front fascia (including 3 buttons)	Part number: ER002A-CS

Packaging	MXD-HS
Weight (kg)	2 kg
Dimensions (mm) L x W x H	340 x 240 x 340

²Refer to Instruction Manual or Conatct Macnaught for more service kits

Display Example

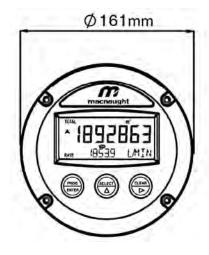


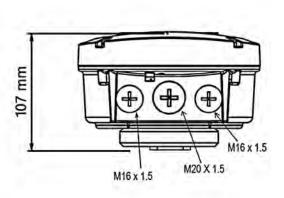
Application:

MXD-HS can be mounted on 1/4" size MX flow meters. It shows flow rate and volume on the LC Display.



Dimensions









DIGITAL DISPLAY, Type: PR, Model: PR-RMP



PR-RMP is a remote mountable digital register with a 12mm LCD display, providing real-time indication of Flow rate, total and accumulated total.



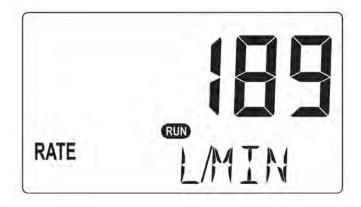
Construction	PR-RMP
Material	Display Housing: Polypropylene Wall Mount Plate: Aluminium
IP rating	IP67
Mounting	Wall Mount
Cable Entry	(2) x M12 * 1.5 1 x cable gland included

LC Display	PR-RMP
Digit Size	Upper LCD 7 Digits (12 mm) Lower LCD 7 Digits (8 mm)
Display	Flow Rate (Various units) Totalizer (Resettable) Batch Totalizer (Resettable) Accumulated Totalizer (Non-Resettable)

Technical Specifications	PR-RMP
Signal inputs	Reed Switch (can be used with battery)
Signal outputs	None
Power supply	Battery: 3.6 V Lithium External: not available
Temperature ¹	-20°C to 80°C -4°F to 176°F
Backup	EEPROM (Flash memory)
Backlight	No
Ex Approvals	No

¹ Refer to flow meter's specifications for overall temperature range

Display Example







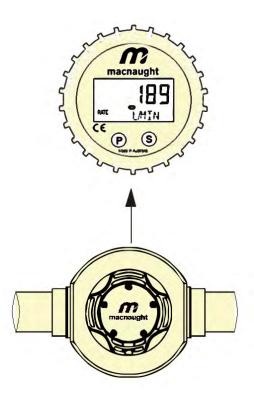
Packaging	PR-RMP
Weight (kg)	0.5 kg
Dimensions (mm) L x W x H	340 x 240 x 140

Service Kits ²	PR-RMP
Battery	Part number: DR012S

² Refer to Instruction Manual or Contact Macnaught for more service kits

Application:

PR-RMP can be used with flow meters having pulse output. It shows flow rate and volume on the LC Display.



Dimensions

Display Wall Mount bracket Display with Wall Mount bracket A x Ø 5.5 holes to suit countersunk screw head PCD: 76 Wall Mount bracket Display with Wall Mount bracket Wall Mount bracket





DIGITAL DISPLAY (with outputs), Type: PRA, Model: PRA-RMP

PRA-RMP is a remote mountable digital register with a 12mm LCD display, providing real-time indication of Flow rate, total and accumulated total. The output include a 4-20mA, programmable pulse output and High & Low flow alarm functions.





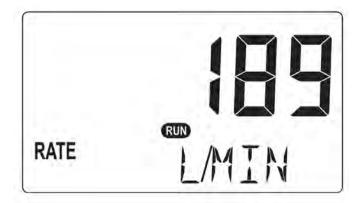
Construction	PRA-RMP
Material	Display Housing: Polypropylene Wall Mount Plate: Aluminium
IP rating	IP67
Mounting	Wall Mount
Cable Entry	(2) x M12 * 1.5 1 x cable gland included

LC Display	PRA-RMP
Digit Size	Upper LCD 7 Digits (12 mm) Lower LCD 7 Digits (8 mm)
Display	Flow Rate (Various units) Totalizer (Resettable) Batch Totalizer (Resettable) Accumulated Totalizer (Non-Resettable)

Technical Specifications	PRA-RMP
Signal inputs	Reed Switch (can be used with battery)
Signal outputs	4-20mA output (Passive, loop powered) Programmable pulse output (Transistor) High flowrate alarm contact (Transistor) Low flowrate alarm contact (Transistor)
Power supply	Battery: 3.6 V Lithium External: 18 – 30 VDC
Temperature ¹	-20°C to 80°C -4°F to 176°F
Backup	EEPROM (Flash memory)
Backlight	No
Ex Approvals	No

¹ Refer to flow meter's specifications for overall temperature range

Display Example







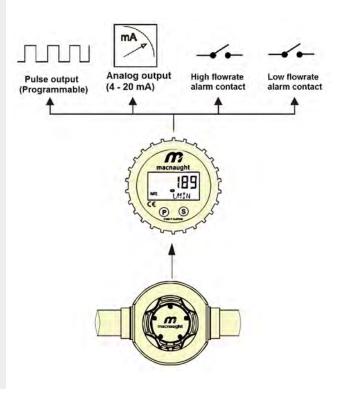
Packaging	PRA-RMP
Weight (kg)	0.5 kg
Dimensions (mm) L x W x H	340 x 240 x 140

Service Kits ²	PRA-RMP
Battery	Part number: DR012S

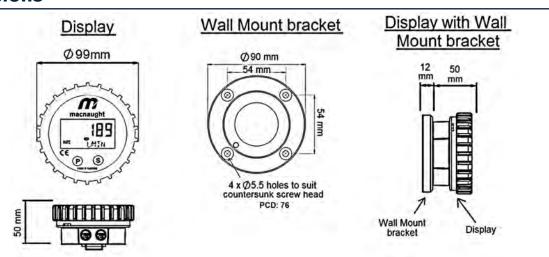
² Refer to Instruction Manual or Contact Macnaught for more service kits

Application:

PRA-RMP can be used with flow meters having pulse output. It shows flow rate and volume on the LC Display. Analog, pulse and alarm options are available as an output.



Dimensions







ANALOG OUTPUT, Model: PRM-RMP



PRM-RMP is a remote mountable unit, transmitting real-time analog signal (4-20mA) for a remote Flow rate.



Construction	PRM-RMP
Material	Display Housing: Polypropylene Wall Mount Plate: Aluminium
IP rating	IP67
Mounting	Wall Mount
Cable Entry	(2) x M12 * 1.5 1 x cable gland included

LC Display	PRM-RMP
Digit Size	Upper LCD 7 Digits (12 mm) Lower LCD 7 Digits (8 mm) (For Programming only)
Display	None

Technical Specifications	PRM-RMP
Signal inputs	Reed Switch
Signal outputs	4-20mA output (Passive, loop powered)
Power supply	External: 18 - 30 V DC
Temperature ¹	-20°C to 80°C -4°F to 176°F
Backup	EEPROM (Flash memory)
Backlight	No
Ex Approvals	No

¹ Refer to flow meter's specifications for overall temperature range

Display Example





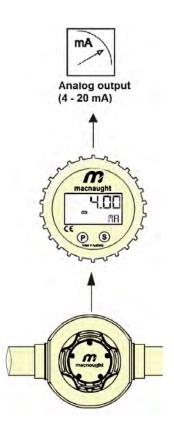


Packaging	PRM-RMP
Weight (kg)	0.5 kg
Dimensions (mm) L x W x H	340 x 240 x 140

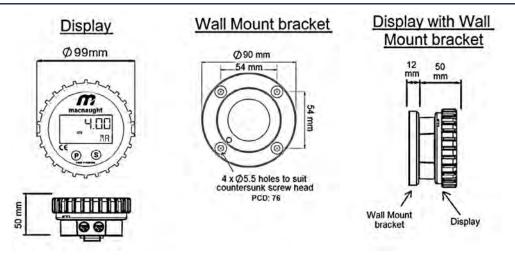
Refer to Instruction Manual or contact Macnaught for service kits

Application:

PRM-RMP can be used with flow meters having pulse output.. It transmits analog signal (in the form of 4-20mA) for an equivalent flow



Dimensions







DIGITAL DISPLAY, Model: ER-RMP

ER-RMP is a remote mountable digital register with a 17mm LCD display, providing real-time indication of Flow rate, total and accumulated total.



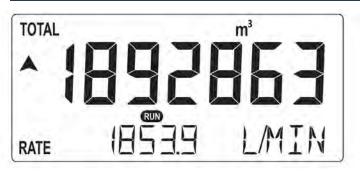


Construction	ER-RMP
Material	GRP (Glassfibre Reinforced polyamide - a high grade Plastic)
IP rating	IP67
Mounting	Wall mount
Cable Entry	(2) x 16mm and (1) x 20mm

LC Display	ER-RMP
Digital Size	Upper LCD 7 Digits (17mm) Lower LCD 11 Digits (8mm)
Display	Flow Rate (Various units) Totalizer (Resettable) Accumulated Totalizer (Non-Resettable)

Technical Specifications	ER-RMP
Signal inputs	Reed (Can be used with internal battery) Hall Effect - NPN (Requires external power) NAMUR (Requires external power)
Signal outputs	None
Power supply	Battery: 3.6 V Lithium External: 16 - 30 VDC
Temperature	-40°C to 80°C -40°F to 176°F
Backup	EEPROM (Flash memory) Data retention at least 10 years
Passcode	Configuration settings can be pass code protected
Backlight	Yes (Only when external DC power supply is connected)
Ex Approvals	No

Display Example





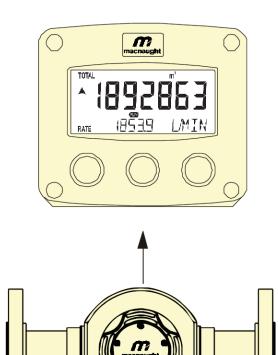


Service Kits	ER-RMP
Battery	Part number: MS493S
Front fascia (including 3 buttons)	Part number: MS654S

Packaging	ER-RMP
Weight (kg)	1 kg
Dimensions (mm) L x W x H	340 x 240 x 140

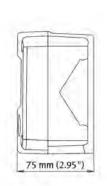
Application:

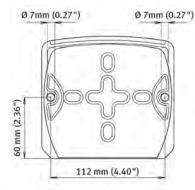
ER-RMP can be used with flow meters having pulse output. It shows flow rate and volume on the LC Display.

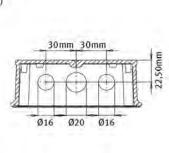


Dimensions













DIGITAL DISPLAY, Model: ER-RMA

ER-RMA is a remote mountable digital register with a 17mm LCD display, providing real-time indication of Flow rate, total and accumulated total.



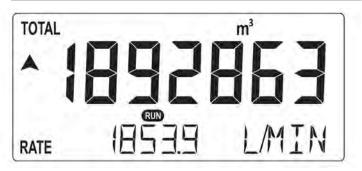


Construction	ER-RMA
Material	Aluminium
IP rating	IP67
Mounting	Wall mount
Cable Entry	(2) x PG9 and (1) x M20

LC Display	ER-RMA
Digital Size	Upper LCD 7 Digits (17mm) Lower LCD 11 Digits (8mm)
Display	Flow Rate (Various units) Totalizer (Resettable) Accumulated Totalizer (Non-Resettable)

Technical Specifications	ER-RMA
Signal inputs	Reed (Can be used with internal battery) Hall Effect - NPN (Requires external power) NAMUR (Requires external power)
Signal outputs	None
Power supply	Battery: 3.6 V Lithium External: 16 - 30 VDC
Temperature	-40°C to 80°C -40°F to 176°F
Backup	EEPROM (Flash memory) Data retention at least 10 years
Passcode	Configuration settings can be pass code protected
Backlight	Yes (Only when external DC power supply is connected)
Ex Approvals	No

Display Example





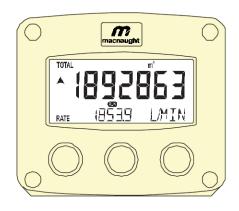


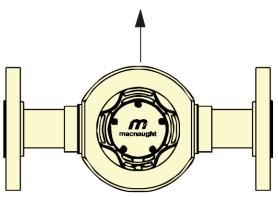
Service Kits	ER-RMA
Battery	Part number: MS493S
Front fascia (including 3 buttons)	Part number: MS639S

Packaging	ER-RMA
Weight (kg)	1.5 kg
Dimensions (mm) L x W x H	340 x 240 x 140

Application:

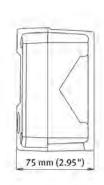
ER-RMA can be used with flow meters having pulse output. It shows flow rate and volume on the LC Display.

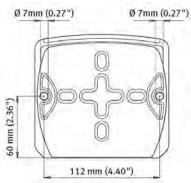


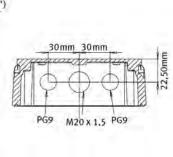


Dimensions













DIGITAL DISPLAY, Model: ERA-RMP

2 YEARS MACNAUGHT WARRANTY

ERA-RMP is a remote mountable digital register with a 17mm LCD display, providing real-time indication of Flow rate, total and accumulated total. The output include a 4-20mA and scaled pulse output.

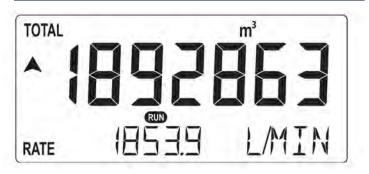


Construction	ERA-RMP
Material	GRP (Glassfibre Reinforced polyamide - a high grade Plastic)
IP rating	IP67
Mounting	Wall mount
Cable Entry	(2) x 16mm and (1) x 20mm

LC Display	ERA-RMP
Digital Size	Upper LCD 7 Digits (17mm) Lower LCD 11 Digits (8mm)
Display	Flow Rate (Various units) Totalizer (Resettable) Accumulated Totalizer (Non-Resettable)

Technical Specifications	ERA-RMP
Signal inputs	Reed (Can be used with internal battery) Hall Effect - NPN (Requires external power) NAMUR (Requires external power)
Signal outputs	4-20mA output (Passive, loop powered) Scaled pulse output (Transistor)
Power supply	Battery: 3.6 V Lithium External: 8 - 30 VDC
Temperature	-40°C to 80°C -40°F to 176°F
Backup	EEPROM (Flash memory) Data retention at least 10 years
Passcode	Configuration settings can be pass code protected
Backlight	Yes (Only when external DC power supply is connected)
Ex Approvals	No

Display Example



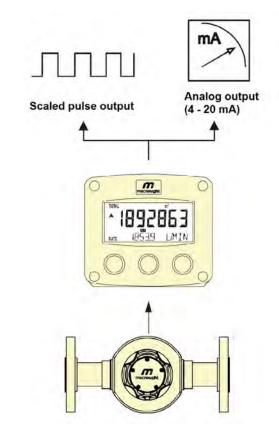




Service Kits	ERA-RMP
Battery	Part number: MS493S
Front fascia (including 3 buttons)	Part number: MS654S

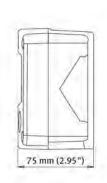
Packaging	ERA-RMP
Weight (kg)	1 kg
Dimensions (mm) L x W x H	340 x 240 x 140

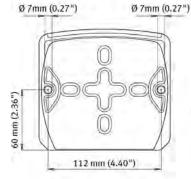
ERA-RMP can be used with flow meters having pulse output. It shows flow rate and volume on the LC Display. Analog and pulse options are available as an output.

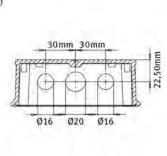


Dimensions













DIGITAL DISPLAY, Model: ERA-RMA

2 YEARS MACNAUGHT WARRANTY

ERA-RMA is a remote mountable digital register with a 17mm LCD display, providing real-time indication of Flow rate, total and accumulated total. The output include a 4-20mA and scaled pulse output.

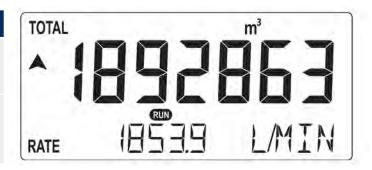


Construction	ERA-RMA
Material	Aluminium
IP rating	IP67
Mounting	Wall mount
Cable Entry	(2) x PG9 and (1) x M20

LC Display	ERA-RMA
Digital Size	Upper LCD 7 Digits (17mm) Lower LCD 11 Digits (8mm)
Display	Flow Rate (Various units) Totalizer (Resettable) Accumulated Totalizer (Non-Resettable)

Technical Specifications	ERA-RMA
Signal inputs	Reed (Can be used with internal battery) Hall Effect - NPN (Requires external power) NAMUR (Requires external power)
Signal outputs	4-20mA output (Passive, loop powered) Scaled pulse output (Transistor)
Power supply	Battery: 3.6 V Lithium External: 8 - 30 VDC
Temperature	-40°C to 80°C -40°F to 176°F
Backup	EEPROM (Flash memory) Data retention at least 10 years
Passcode	Configuration settings can be pass code protected
Backlight	Yes (Requires external power)
Ex Approvals	No

Display Example



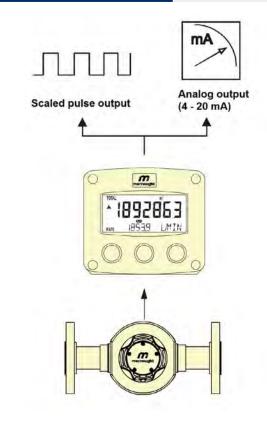




Service Kits	ERA-RMA
Battery	Part number: MS493S
Front fascia (including 3 buttons)	Part number: MS639S

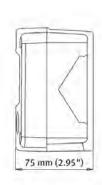
Packaging	ERA-RMA
Weight (kg)	1.5 kg
Dimensions (mm) L x W x H	340 x 240 x 140

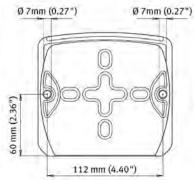
ERA-RMA can be used with flow meters having pulse output. It shows flow rate and volume on the LC Display. Analog and pulse options are available as an output.

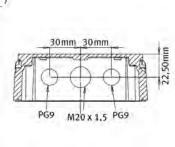


Dimensions













DIGITAL DISPLAY, Model: ERB-RMP

ERB-RMP is a remote mountable digital register with a 17mm LCD display, providing a control output for single stage batching applications.



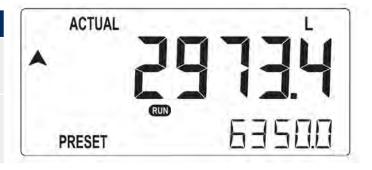


Construction	ERB-RMP
Material	GRP (Glassfibre Reinforced polyamide - a high grade Plastic)
IP rating	IP67
Mounting	Wall mount
Cable Entry	(2) x 16mm and (1) x 20mm

LC Display	ERB-RMP
Digital Size	Upper LCD 7 Digits (17mm) Lower LCD 11 Digits (8mm)
Display	Pre-set value Running Batch total Total and Accumulated total

Technical Specifications	ERB-RMP
Signal inputs	Reed (Can be used with internal battery) Hall Effect - NPN (Requires external power) NAMUR (Requires external power)
Signal outputs	Transistor switch output (Passive, Requires external power)
Power supply	Battery: 3.6 V Lithium External: 16 - 30 VDC
Temperature	-40°C to 80°C -40°F to 176°F
Backup	EEPROM (Flash memory) Data retention at least 10 years
Passcode	Configuration settings can be pass code protected
Backlight	Yes (Requires external power)
Ex Approvals	No

Display Example



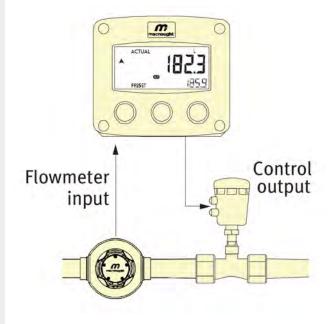




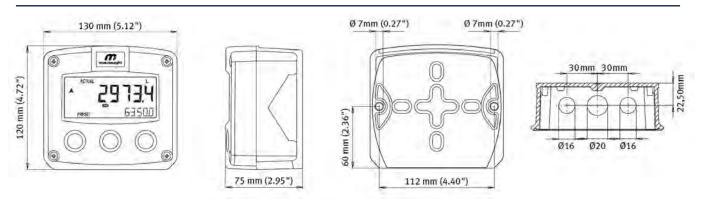
Service Kits	ERB-RMP
Battery	Part number: MS493S
Front fascia (including 3 buttons)	None

Packaging	ERB-RMP
Weight (kg)	1 kg
Dimensions (mm) L x W x H	340 x 240 x 140

ERB-RMP can be used for batching small up to large quantities of liquids having single or repeating batches. It can also be used to display Total and Accumulated total.



Dimensions







DIGITAL DISPLAY, Model: ERB-RMA

ERB-RMA is a remote mountable digital register with a 17mm LCD display, providing a control output for single stage batching applications.



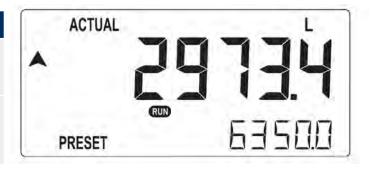


Construction	ERB-RMA
Material	Aluminium
IP rating	IP67
Mounting	Wall mount
Cable Entry	(2) x PG9 and (1) x M20

LC Display	ERB-RMA
Digital Size	Upper LCD 7 Digits (17mm) Lower LCD 11 Digits (8mm)
Display	Pre-set value Running Batch total Total and Accumulated total

Technical Specifications	ERB-RMA
Signal inputs	Reed (Can be used with internal battery) Hall Effect - NPN (Requires external power) NAMUR (Requires external power)
Signal outputs	Transistor switch output (Passive, Requires external power)
Power supply	Battery: 3.6 V Lithium External: 16 - 30 VDC
Temperature	-40°C to 80°C -40°F to 176°F
Backup	EEPROM (Flash memory) Data retention at least 10 years
Passcode	Configuration settings can be pass code protected
Backlight	Yes (Requires external power)
Ex Approvals	No

Display Example



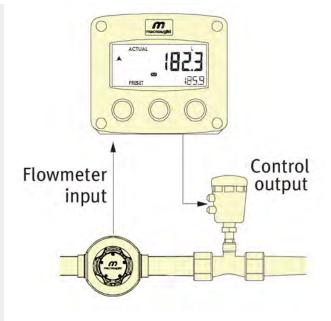




Service Kits	ERB-RMA
Battery	Part number: MS493S
Front fascia (including 3 buttons)	None

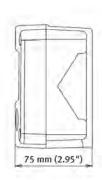
Packaging	ERB-RMA
Weight (kg)	1.5 kg
Dimensions (mm) L x W x H	340 x 240 x 140

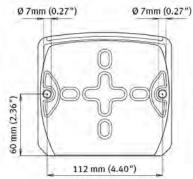
ERB-RMA can be used for batching small up to large quantities of liquids having single or repeating batches. It can also be used to display Total and Accumulated total.

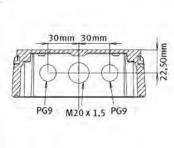


Dimensions













DIGITAL DISPLAY, Model: ERAC-RMA

2 YEARS MACNAUGHT WARRANTY

ERAC-RMA is a remote mountable digital register with a 17mm LCD display, providing real-time indication of Flow rate, total and accumulated total. The output include a 4-20mA and scaled pulse output with an option of communication through Modbus RS485 protocol.

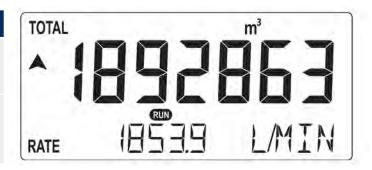


Construction	ERAC-RMA
Material	Aluminium
IP rating	IP67
Mounting	Wall mount
Cable Entry	(2) x PG9 and (1) x M20

LC Display	ERAC-RMA
Digital Size	Upper LCD 7 Digits (17mm) Lower LCD 11 Digits (8mm)
Display	Flow Rate (Various units) Totalizer (Resettable) Accumulated Totalizer (Non-Resettable)

Technical Specifications	ERAC-RMA
Signal inputs	Reed (Can be used with internal battery) Hall Effect - NPN (Requires external power) NAMUR (Requires external power)
Signal outputs	4-20mA output (Passive, loop powered) Scaled pulse output (Transistor) Communication: Modbus RS485
Power supply	Battery: 3.6 V Lithium External: 8 - 30 VDC
Temperature	-40°C to 80°C -40°F to 176°F
Backup	EEPROM (Flash memory) Data retention at least 10 years
Passcode	Configuration settings can be pass code protected
Backlight	Yes (Requires external power)
Ex Approvals	No

Display Example



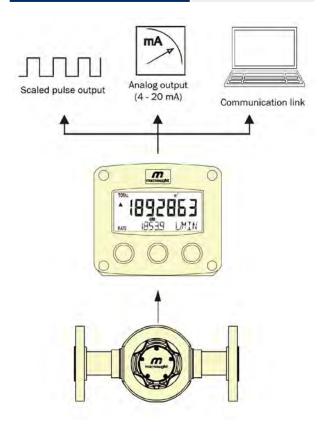




Service Kits	ERAC-RMA
Battery	Part number: MS493S
Front fascia (including 3 buttons)	Part number: MS639S

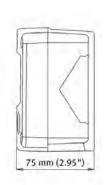
Packaging	ERAC-RMA
Weight (kg)	1.5 kg
Dimensions (mm) L x W x H	340 x 240 x 140

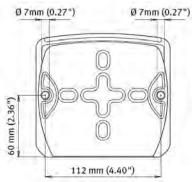
ERAC-RMA can be used with flow meters having pulse output. It shows flow rate and volume on the LC Display. Analog and pulse options are available as an output with an option of communication through Modbus RS485 protocol.

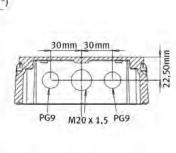


Dimensions













DIGITAL DISPLAY, Model: ERS-RMP

ERS-RMP is a remote mountable digital register with a 17mm LCD display, providing Differential or Summation flow measurements of two separate flow meters.





Construction	ERS-RMP
Material	GRP (Glassfibre Reinforced polyamide - a high grade Plastic)
IP rating	IP67
Mounting	Wall mount
Cable Entry	(2) x 16mm and (1) x 20mm

LC Display	ERS-RMP
Digital Size	Upper LCD 7 Digits (17mm) Lower LCD 11 Digits (8mm)
Display	Signal A: Flow rate and Total volume Signal B: Flow rate and Total volume A-B: Differential of two signals A+B: Summation of two signals

Technical Specifications	ERS-RMP
Signal inputs	Reed (Can be used with internal battery) Hall Effect - NPN (Requires external power) NAMUR (Requires external power)
Signal outputs	4-20mA output (Passive, loop powered) Scaled pulse output (Transistor) Negative total value indication (Transistor)
Power supply	Battery: 3.6 V Lithium External: 8 - 30 VDC
Temperature	-40°C to 80°C -40°F to 176°F
Backup	EEPROM (Flash memory) Data retention at least 10 years
Passcode	Configuration settings can be pass code protected
Backlight	Yes (Requires external power)
Ex Approvals	No

Display Example







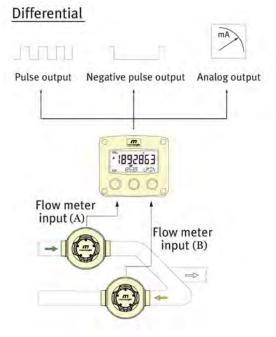
Service Kits	ERS-RMP
Battery	Part number: MS493S
Front fascia (including 3 buttons)	Part number: MS654S

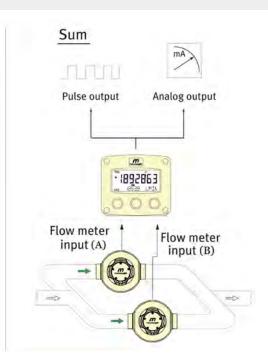
Packaging	ERS-RMP
Weight (kg)	1 kg
Dimensions (mm) L x W x H	340 x 240 x 140

ERS-RMP can be used for;

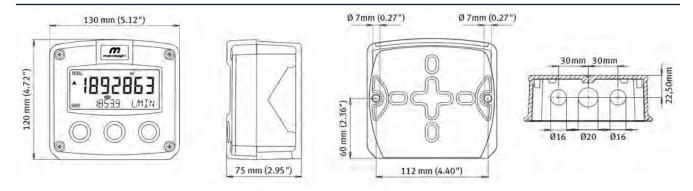
<u>Differential function:</u> For measurement of fuel consumption for diesel/ fuel engines or generators.

<u>Sum function:</u> For calculation of total flow where flows are split-up in two pipe-lines.





Dimensions







DIGITAL DISPLAY, Model: ERS-RMA

ERS-RMA is a remote mountable digital register with a 17mm LCD display, providing Differential or Summation flow measurements of two separate flow meters.





Construction	ERS-RMA
Material	Aluminium
IP rating	IP67
Mounting	Wall mount
Cable Entry	(2) x PG9 and (1) x M20

LC Display	ERS-RMA
Digital Size	Upper LCD 7 Digits (17mm) Lower LCD 11 Digits (8mm)
Display	Signal A: Flow rate and Total volume Signal B: Flow rate and Total volume A-B: Differential of two signals A+B: Summation of two signals

Technical Specifications	ERS-RMA
Signal inputs	Reed (Can be used with internal battery) Hall Effect - NPN (Requires external power) NAMUR (Requires external power)
Signal outputs	4-20mA output (Passive, loop powered) Scaled pulse output (Transistor) Negative total value indication (Transistor)
Power supply	Battery: 3.6 V Lithium External: 8 - 30 VDC
Temperature	-40°C to 80°C -40°F to 176°F
Backup	EEPROM (Flash memory) Data retention at least 10 years
Passcode	Configuration settings can be pass code protected
Backlight	Yes (Requires external power)
Ex Approvals	No

Display Example





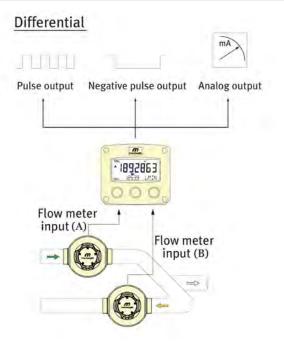


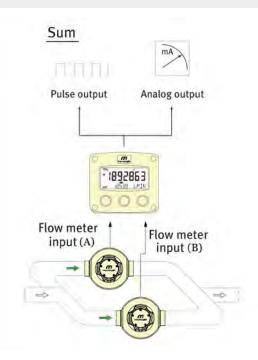
Service Kits	ERS-RMA	
Battery	Part number: MS493S	
Front fascia (including 3 buttons)	Part number: MS639S	

Packaging	ERS-RMA
Weight (kg)	1.5 kg
Dimensions (mm) L x W x H	340 x 240 x 140

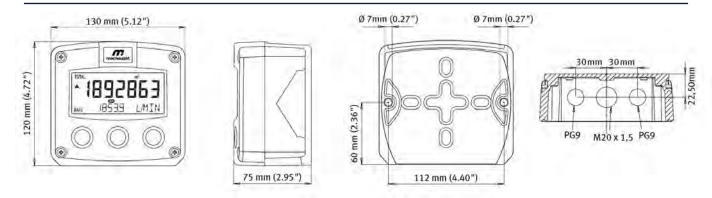
ERS-RMA can be used for;

<u>Differential function:</u> For measurement of fuel consumption for diesel/ fuel engines or generators. Sum function: For calculation of total flow where flows are split-up in two pipe-lines.





Dimensions







DIGITAL DISPLAY, Model: ERST-RMA

YEARS MACNAUGHT WARRANTY

ERST-RMA is a remote mountable digital register with a 17mm LCD display, providing Differential flow measurements (Temperature compensated) of two separate flow meters.



Construction	ERST-RMA
Material	Aluminium
IP rating	IP67
Mounting	Wall mount
Cable Entry	(2) x PG9 and (1) x M20

LC Display	ERST-RMA	
Digital Size	Upper LCD 7 Digits (17mm) Lower LCD 11 Digits (8mm)	
Display	Inlet line: Flow rate and Temperature Outlet line: Flow rate and Temperature Differential flow rate of two signals Differential total volume of two signals	

Technical Specifications	ERST-RMA
Signal inputs	Reed (Can be used with internal battery) Hall Effect - NPN (Requires external power) NAMUR (Requires external power) Temperature input signal: PT100
Signal outputs	4-20mA output (Passive, loop powered) Scaled pulse output (Transistor)
Power supply	Battery: 3.6 V Lithium External: 8 - 24 VDC
Temperature	-40°C to 80°C -40°F to 176°F
Backup	EEPROM (Flash memory) Data retention at least 10 years
Passcode	Configuration settings can be pass code protected
Backlight	Yes (Requires external power)
Ex Approvals	No

Display Example



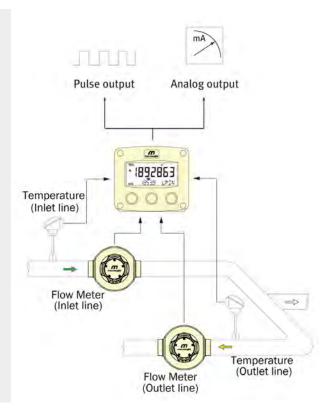




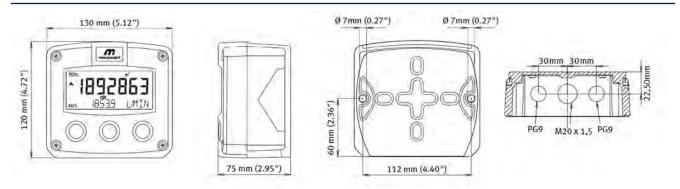
Service Kits	ERST-RMA
Battery	Part number: MS493S
Front fascia (including 3 buttons)	Part number: MS639S

Packaging	ERST-RMA
Weight (kg)	1.5 kg
Dimensions (mm) L x W x H	340 x 240 x 140

ERST-RMA can be used for measurement of fuel consumption (Temperature Compensated) for diesel/ fuel engines or generators.



Dimensions







INTRINSICALLY SAFE (Ex ia) PULSER, Model: MXD-BS

YEARS
MACMAUGHT
WARRANTY

MXD-BS provides pulse output from 1 x NPN sensor.



Technical Specifications	MXD-BS
Signal outputs	NPN sensor (3-wire) Operating voltage: 5 to 30 VDC Maximum sinking current: 25mA
Temperature ²	-40°C to 65°C -40°F to 149°F
Ex Approvals	ATEX, IECEx, US & CAN (THROUGH FM)

²Refer to flow meter's specifications for overall temperature range.

Construction	MXD-BS
Material	Stainless Steel
Housing Type	Barrel
IP rating	IP67
Mounting	Meter Mounted (MX only)
Cable Length ¹	2 meters
Cable Termination	Stripped Leads (tinned)

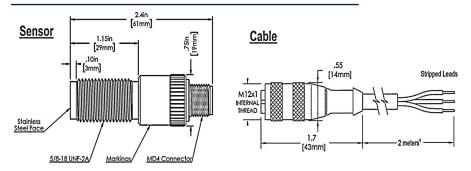
Extended cable may be available, contact Macnaught

Application:

MXD-BS can be mounted on MX flow meters. It generates non-scalable pulse output from 1 x NPN sensor.



Dimensions



Service Kits	MXD-BS
	Sensor Socket Kit: MXS-SOCKET

Packaging	MXD-BS
Weight (kg)	0.5 kg
Dimensions (mm) L x W x H	220 x 240 x 40





FLAME PROOF (Ex D) PULSER, Model: MXD-CS

YEARS MACNAUGHT WARRANTY

MXD-CS provides pulse output from 1 x NPN sensor.



Technical Specifications	MXD-CS
Signal outputs	NPN sensor (3-wire) Operating voltage: 5 to 27 VDC Maximum sinking current: 25mA
Temperature ²	-50°C to 140°C -58°F to 284°F
Ex Approvals	ATEX, IECEx, US & CAN (THROUGH FM)

²Refer to flow meter's specifications for overall temperature range.

Construction	MXD-CS
Material	Stainless Steel
Housing Type	Hex
IP rating	IP67
Mounting	Meter Mounted (MX only)
Cable Length ¹	3 meters (non-removable)
Cable Termination	Stripped Leads (tinned) Conduit: M20 x 1.5

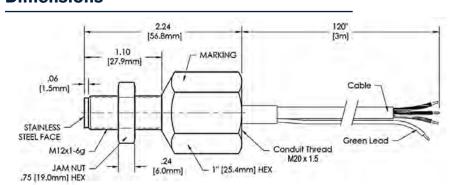
Extended cable may be available, contact Macnaught

Application:

MXD-CS can be mounted on MX flow meters. It generates non-scalable pulse output from 1 x NPN sensor.



Dimensions



Service Kits	MXD-CS
	None
Dackagin	a MVD CS

Packaging	MXD-CS
Weight (kg)	0.5 kg
Dimensions (mm) L x W x H	220 x 240 x 40





INTRINSICALLY SAFE (Ex ia) PULSER, Model: MXD-NS

YEARS MACNAUGHT WARRANTY

MXD-NS provides pulse output from 1 x NAMUR sensor.



Technical Specifications	MXD-NS
Signal outputs	NAMUR (2-wire) Operating voltage: 8.2 vdc Actuated current consumption: 2.1 mA
Temperature ²	-25°C to 70°C -13°F to 158°F
Ex Approvals	IECEx, ATEX, US (THROUGH FM)

²Refer to flow meter's specifications for overall temperature range.

Construction	MXD-NS
Material	Metal, CuZn, Chrome-plated
Housing Type	Barrel
IP rating	IP67
Mounting	Meter Mounted (MX only)
Cable Length ¹	2 meters
Cable Termination	Stripped Leads (tinned)

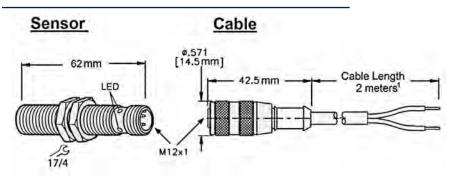
Extended cable may be available, contact Macnaught

Application:

MXD-NS can be mounted on MX flow meters. It generates non-scalable pulse output from 1 x NAMUR sensor.



Dimensions



Service Kits	MXD-NS
	Sensor Socket Kit: MXS-SOCKET-NAMUR

Packaging	MXD-NS
Weight (kg)	0.5 kg
Dimensions (mm) L x W x H	220 x 240 x 40





DIGITAL DISPLAY, Model: ERX-RMA

ERX-RMA is an Intrinsically Safe remote mountable digital register with a 17mm LCD display, providing real-time indication of Flow rate, total and accumulated total.

Technical





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PRO	SELECT	CLEAR	

Construction	ERX-RMA
Material	Aluminium
IP rating	IP67
Mounting	Wall mount
Cable Entry	(2) x PG9 and (1) x M20

Specifications	ERX-RMA
Signal inputs*	Reed Switch NPN sensor (Requires external power) NAMUR sensor (Requires external power)
Signal outputs	None
Power supply	Battery: 3.6 V Lithium External: 16 - 30 VDC
Temperature	-40°C to 70°C -40°F to 158°F
Backup	EEPROM (Flash memory) Data retention at least 10 years
Passcode	Configuration settings can be pass code protected
Backlight	Yes (Requires external power)
Ex Approvals	ATEx, IECEx, CSA, FM

^{*} Sensor must be installed with an approved safety barrier

Display Example

LC Display ERX-RMA Upper LCD 7 Digits (17mm) **Digital Size** Lower LCD 11 Digits (8mm) Flow Rate (Various units)







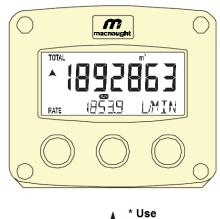


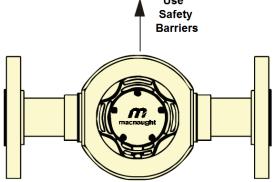
Service Kits	ERX-RMA
Battery	Part number: MS493XS
Front fascia (including 3 buttons)	Part number: MS639S

Packaging	ERX-RMA
Weight (kg)	1.5 kg
Dimensions (mm) L x W x H	340 x 240 x 140

ERX-RMA can be used with flow meters having pulse output. It shows flow rate and volume on the LC Display.

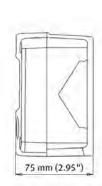
*Any external power must be installed with an approved safety barrier

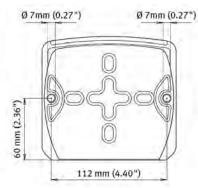


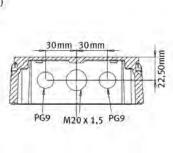


Dimensions













DIGITAL DISPLAY, Model: ERAX-RMA

YEARS
MACNAUGHT
WARRANTY

ERAX-RMA is an Intrinsically Safe remote mountable digital register with a 17mm LCD display, providing real-time indication of Flow rate, total and accumulated total. The output include a 4-20mA and scaled pulse output.







Construction	ERAX-RMA
Material	Aluminium
IP rating	IP67
Mounting	Wall mount
Cable Entry	(2) x PG9 and (1) x M20

LC Display	ERAX-RMA
Digital Size	Upper LCD 7 Digits (17mm) Lower LCD 11 Digits (8mm)
Display	Flow Rate (Various units) Totalizer (Resettable) Accumulated Totalizer (Non-Resettable)

Technical Specifications	ERAX-RMA
Signal inputs*	Reed Switch NPN sensor (Requires external power) NAMUR sensor (Requires external power)
Signal outputs	4-20mA output (Passive, loop powered) Scaled pulse output (Transistor)
Power supply	Battery: 3.6 V Lithium External: 16 - 30 VDC
Temperature	-40°C to 70°C -40°F to 158°F
Backup	EEPROM (Flash memory) Data retention at least 10 years
Passcode	Configuration settings can be pass code protected
Backlight	No
Ex Approvals	ATEX, IECEx

^{*} Sensor must be installed with an approved safety barrier

Display Example





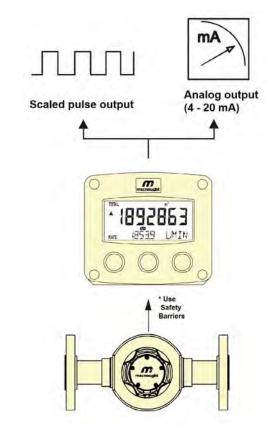


Service Kits	ERAX-RMA
Battery	Part number: MS493XS
Front fascia (including 3 buttons)	Part number: MS639S

Packaging	ERAX-RMA
Weight (kg)	1.5 kg
Dimensions (mm) L x W x H	340 x 240 x 140

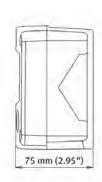
ERAX-RMA can be used with flow meters having pulse output. It shows flow rate and volume on the LC Display. Analog and pulse options are available as an output.

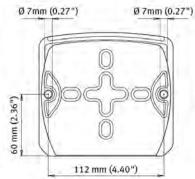
*Any external power must be installed with an approved safety barrier

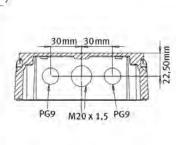


Dimensions













DIGITAL DISPLAY, Model: ERAX-RMS

YEARS MACNAUGHT WARRANTY

ERAX-RMS is an Intrinsically safe remote mountable digital register with a 17mm LCD display, providing real-time indication of Flow rate, total and accumulated total. The output include a 4-20mA and scaled pulse output.







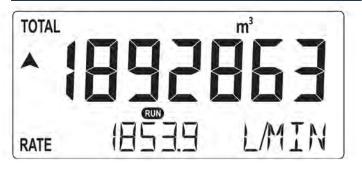
Construction	ERAX-RMS
Material	Stainless Steel
IP rating	IP67
Mounting	Wall mount
Cable Entry	(2) x M20

LC Display	ERAX-RMS
Digital Size	Upper LCD 7 Digits (17mm) Lower LCD 11 Digits (8mm)
Display	Flow Rate (Various units) Totalizer (Resettable) Accumulated Totalizer (Non-Resettable)

Technical Specifications	ERAX-RMS	
Signal inputs*	Reed Switch NPN sensor (Requires external power) NAMUR sensor (Requires external power)	
Signal outputs	4-20mA output (Passive, loop powered) Scaled pulse output (Transistor)	
Power supply	Battery: 3.6 V Lithium External: 8 - 30 VDC	
Temperature	-40°C to 70°C -40°F to 158°F	
Backup	EEPROM (Flash memory) Data retention at least 10 years	
Passcode	Configuration settings can be pass code protected	
Backlight	No	
Ex Approvals	ATEX, IECEx (Group I, Mining)	

^{*} Sensor must be installed with an approved safety barrier

Display Example





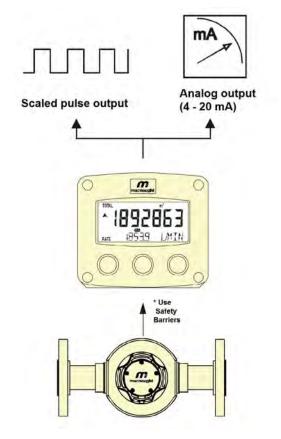


Service Kits	ERAX-RMS
Battery	Part number: MS493XS
Front fascia (including 3 buttons)	None

Packaging	ERAX-RMS
Weight (kg)	3 kg
Dimensions (mm) L x W x H	340 x 240 x 140

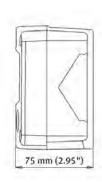
ERAX-RMS can be used with flow meters having pulse output. It shows flow rate and volume on the LC Display. Analog and pulse options are available as an output.

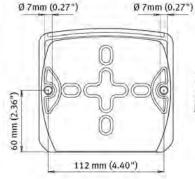
*Any external power must be installed with an approved safety barrier

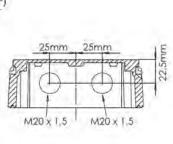


Dimensions













DIGITAL DISPLAY, Model: ERBX-RMA

ERBX-RMA is an Intrinsically safe remote mountable digital register with a 17mm LCD display, providing a control output for single stage batching applications.













Construction	ERBX-RMA
Material	Aluminium
IP rating	IP67
Mounting	Wall mount
Cable Entry	(2) x PG9 and (1) x M20

LC Display	ERBX-RMA
Digital Size	Upper LCD 7 Digits (17mm) Lower LCD 11 Digits (8mm)
Display	Preset value Running Batch total Total and Accumulated total

Technical Specifications	ERBX-RMA
Signal inputs*	Reed Switch NPN sensor (Requires external power) NAMUR sensor (Requires external power)
Signal outputs	Transistor switch output (Passive, Requires external power)
Power supply	Battery: 3.6 V Lithium External: 16 - 30 VDC
Temperature	-40°C to 70°C -40°F to 158°F
Backup	EEPROM (Flash memory) Data retention at least 10 years
Passcode	Configuration settings can be pass code protected
Backlight	Yes (Requires external power)
Ex Approvals	ATEX, IECEx, CSA, FM

^{*} Sensor must be installed with an approved safety barrier

Display Example





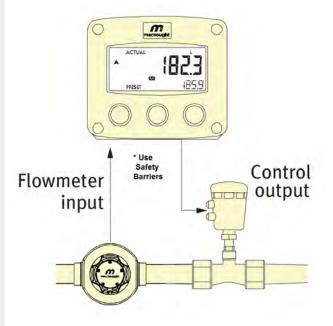


Service Kits	ERBX-RMA
Battery	Part number: MS493XS
Front fascia (including 3 buttons)	None

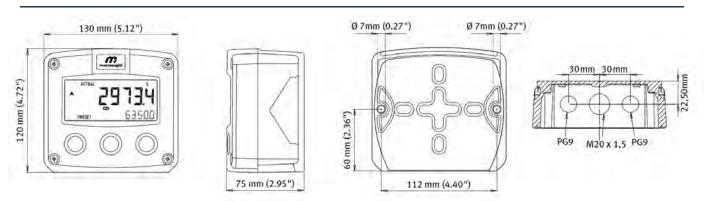
Packaging	ERBX-RMA
Weight (kg)	1.5 kg
Dimensions (mm) L x W x H	340 x 240 x 140

ERBX-RMA can be used for batching small up to large quantities having single or repeating batches. It can also be used to display Total and Accumulated total.

*Any external power must be installed with an approved safety barrier



Dimensions







DIGITAL DISPLAY, Model: MXD-GXS

2 YEARS MACNAUGHT WARRANTY

MXD-GXS is a meter mountable digital register with a 17mm LCD display, providing real-time indication of flow rate, batch total, accumulated total, scaled pulse and 4-20 mA analogue output.



EXPLODED VIEW





LC Display	MXD-GXS	
Digital Size	Upper LCD 7 Digits (17mm) Lower LCD 11 Digits (8mm)	
Display	Flow Rate (Various units) Batch Total (Resettable) Accumulated Totalizer (Non-Resettable)	

Technical Specifications	MXD-GXS	
Signal inputs	Reed (Can be used with internal battery) Hall Effect - NPN (Requires external power)	
Signal outputs	Scaled Pulse, 4-20 mA Output	
Power supply	Battery: 3.6 V Lithium External: 16 - 30 VDC	
Temperature ¹	-40°C to 80°C -40°F to 176°F	
Backup	EEPROM (Flash memory) Data retention at least 10 years	
Pass code	Configuration settings can be pass code protected	
Backlight	Yes (Requires external power)	
Approvals	EX II 1 GD EEx ia IIC T4 T100C	

¹Refer to flow meter's specifications for overall temperature range.

Construction	MXD-GXS		
Material	Aluminium		
IP rating	IP67		
Mounting	Fixed - Meter Mounted (MX06 and MX09 only)		
Cable Entry	(2) x M16 * 1.5 and (1) x M20 x 1.5		



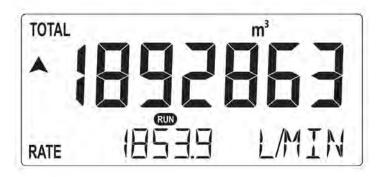


Service Kits ₂	MXD-GXS	
Battery	Part number: MS493S	
Sensor Board	Part number: MXS-PCB-RH	
Front fascia (including 3 buttons)	Part number: ER002A-CS	

² Refer to Instruction	Manual or	Constct M	acnought fo	or more cervice kite
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Packaging	MXD-GXS
Weight (kg)	2 kg
Dimensions (mm) L x W x H	340 x 240 x 340

Display Example



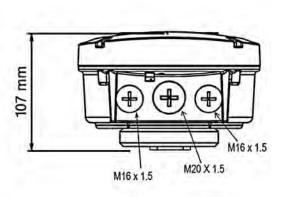
Application:

MXD-GXS can be mounted on 1/4" size MX flow meters. It shows flow rate and volume on the LC Display.



Dimensions









DIGITAL DISPLAY, Model: MXD-FXS

MXD-FXS is a meter mountable digital register with a 17mm LCD display, providing real-time indication of flow rate, total and accumulated total.





EXPLODED VIEW





LC Display	MXD-FXS	
Digital Size	Upper LCD 7 Digits (17mm) Lower LCD 11 Digits (8mm)	
Display	Flow Rate (Various units) Totalizer (Resettable) Accumulated Totalizer (Non-Resettable)	

Technical Specifications	MXD-FXS
Signal inputs	Reed (Can be used with internal battery) Hall Effect - NPN (Requires external power)
Signal outputs	None
Power supply	Battery: 3.6 V Lithium External: 16 - 30 VDC
Temperature ¹	-40°C to 80°C -40°F to 176°F
Backup	EEPROM (Flash memory) Data retention at least 10 years
Pass code	Configuration settings can be pass code protected
Backlight	Yes (Requires external power)
Approvals	EX II 1 GD EEx ia IIC T4 T100C

 ${}^{\scriptscriptstyle 1}\!\text{Refer}$ to flow meter's specifications for overall temperature range.

Construction	MXD-FXS		
Material	Aluminium		
IP rating	IP67		
Mounting	Fixed - Meter Mounted (MX06 and MX09 only)		
Cable Entry	(2) x M16 * 1.5 and (1) x M20 x 1.5		



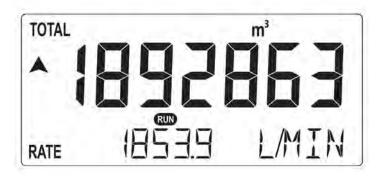


Service Kits ₂	MXD-FXS	
Battery	Part number: MS493S	
Sensor Board	Part number: MXS-PCB-RH	
Front fascia (including 3 buttons)	Part number: ER002A-CS	

		_		_
² Refer to	Instruction	Manual or	Conatct Macnaught for m	ore service kits

Packaging	MXD-FXS	
Weight (kg)	2 kg	
Dimensions (mm) L x W x H	340 x 240 x 340	

Display Example

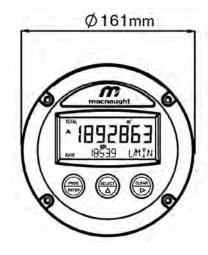


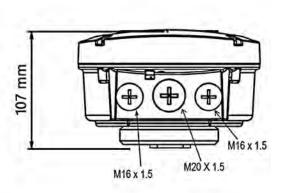
Application:

MXD-FXS can be mounted on 1/4" size MX flow meters. It shows flow rate and volume on the LC Display.



Dimensions









DIGITAL DISPLAY, Model: MXD-HXS

MXD-HXS is a meter mountable digital register with a 17mm LCD display, providing real-time indication of flow rate, batch preset, accumulated total.





EXPLODED VIEW





LC Display	MXD-HXS
Digital Size	Upper LCD 7 Digits (17mm) Lower LCD 11 Digits (8mm)
Display	Flow Rate (Various units) Batch Control Accumulated Totalizer (Non-Resettable)

Technical Specifications	MXD-HXS
Signal inputs	Reed (Can be used with internal battery) Hall Effect - NPN (Requires external power)
Signal outputs	Batch Control
Power supply	Battery: 3.6 V Lithium External: 16 - 30 VDC
Temperature ¹	-40°C to 80°C -40°F to 176°F
Backup	EEPROM (Flash memory) Data retention at least 10 years
Pass code	Configuration settings can be pass code protected
Backlight	Yes (Requires external power)
Approvals	EX II 1 GD EEx ia IIC T4 T100C

¹Refer to flow meter's specifications for overall temperature range.

Construction	MXD-HXS
Material	Aluminium
IP rating	IP67
Mounting	Fixed - Meter Mounted (MX06 and MX09 only)
Cable Entry	(2) x M16 * 1.5 and (1) x M20 x 1.5





Service Kits ₂	MXD-HXS	
Battery	Part number: MS493S	
Sensor Board	Part number: MXS-PCB-RH	
Front fascia (including 3 buttons)	Part number: ER002A-CS	

Packaging	MXD-HXS
Weight (kg)	2 kg
Dimensions (mm) L x W x H	340 x 240 x 340

Display Example



Application:

MXD-HXS can be mounted on 1/4" size MX flow meters. It shows flow rate and volume on the LC Display.



Dimensions

