

evoQ₄ REMOTE DISPLAY MODULE FITTING AND PULSE OPTION GUIDE

■ evoQ₄ Remote Package Parts

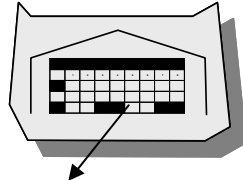
- Remote Display Unit



- Remote Connector Unit

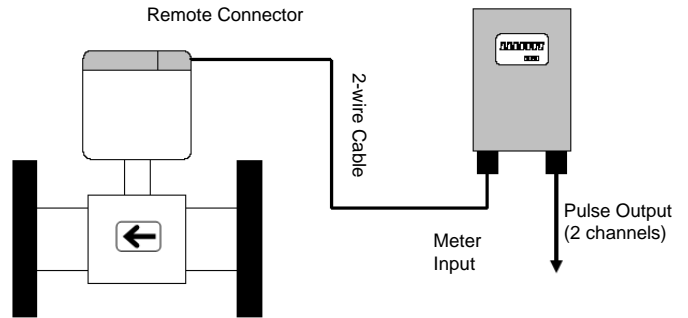


To access the wiring connections, remove the front cover by sliding up and off. Wiring details are shown on the back of the front cover (see right)



Wiring & Connection Details								
Number	1	2	3	4	5	6	7	8
Colour of wire	White	Black						
Mark	+	-	+	-(Common)	+			
Description	Meter Input	Pulse Output 1	Pulse Output 2					NC

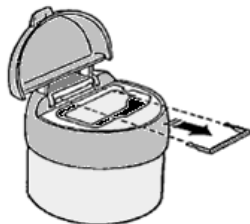
■ evoQ₄ Remote Display Schematic



■ evoQ₄ Remote Display Specifications

- Operating temperature: -4°F to +140°F
- Pulse Output Signal: Open Drain Field Effect Transistor
- Maximum load current: 20mA
- Maximum load voltage: 30V DC
- Max distance between meter and remote: 100 ft
- Maximum pulse transmitting distance: 650 ft
- Pulse width: 100ms +/- 10 ms
- Battery Powered: 10 years
- Environmental Rating: IP63

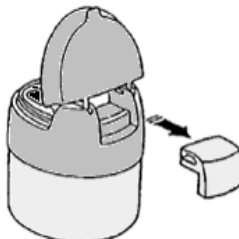
■ Remote Connector Fitting Instructions



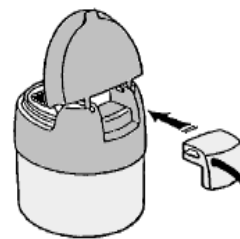
1. Lift the lid. Using a small screwdriver blade, carefully remove the pulser clip.



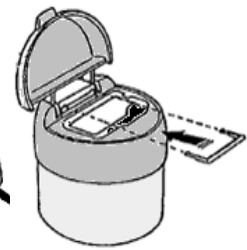
2. Remove the blank cover by lifting it up...



3. ...and then slide out



4. Fit the remote connector unit in the opposite manner to the cover removal*



5. Replace the securing clip (lugs uppermost)

* WARNING: Take care not to dislodge the rubber gasket on the underside of the unit when fitting / removing

■ Remote Display Pulse Values

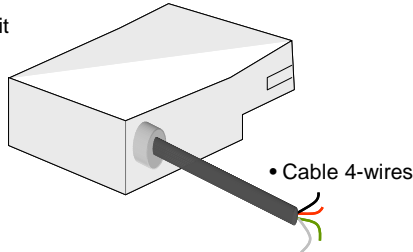
Remote Display unit type†	Channel 1	Channel 2
USG x 100	10 USG	10 USG
USG x 1000	100 USG	100 USG
CuFt x 10	1 CuFt	1 CuFt
CuFt x 100	10 CuFt	10 CuFt

† See units and multiplier in top right corner of display

evoQ₄ PULSER MODULE FITTING AND WIRING GUIDE

■ evoQ₄ Pulsar Package Parts

- Pulsar Unit

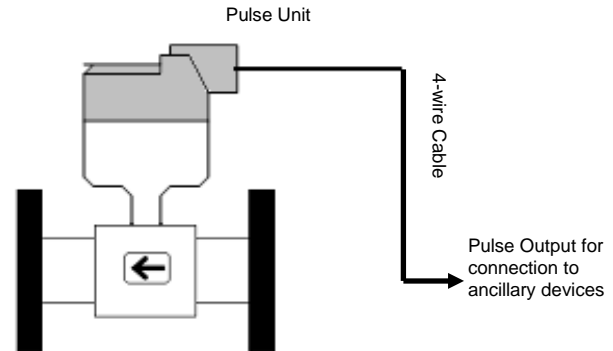


- Cable 4-wires

■ evoQ₄ Pulse Unit Specifications

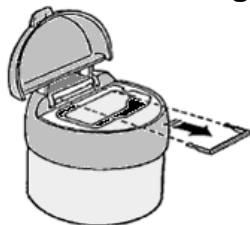
- Operating temperature 14°F to +130°F
- Pulse Output Signal: Open Drain Field Effect Transistor (NPN)
- Maximum load current: 20mA
- Maximum load voltage: 30V DC
- Maximum pulse transmitting distance: 650 ft
- Pulse width: 100ms +/- 10 ms
- Battery Powered: 10 years
- Environmental Rating: IP68

■ evoQ₄ Pulse Version Schematic

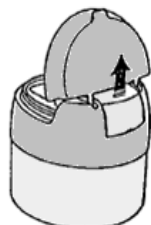


- Standard cable length supplied is 10 metres
- 30m cable is optional (contact Elster for details)

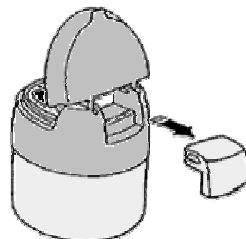
■ Pulsar Unit Fitting Instructions



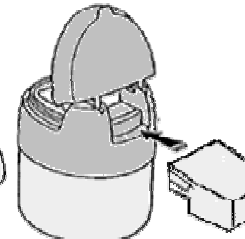
1. Lift the lid. Using a small screwdriver blade, carefully remove the pulser clip.



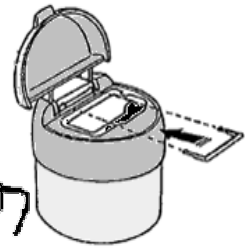
2. Remove the blank cover by lifting it up...



3. ...and then slide out



4. Fit the pulser unit in the opposite manner to the cover removal*



5. Replace the securing clip (lugs uppermost)

*** WARNING:** Take care not to dislodge the rubber gasket on the underside of the unit when fitting / removing

■ Pulse Configuration Options

MX39-3 Wire Outputs	Red	White	Green	Black
	Channel 1	Channel 2	Common	Tamper

Version	Programming Required**	Flow	Cable Length	Ch1		Ch2	
				Cuft	USG	Cuft	USG
Standard	No	Forward Net on Ch1 and Ch2	10	1	10	10	100
Standard	No	Forward Net on Ch1 and Ch2	30	1	10	10	100
Optional	Yes	Forward Net on Ch1 and Ch2	10	0.1	1	10	100
Optional	Yes	Forward Net on Ch1 and Ch3	30	0.1	1	10	100
Optional	Yes	(Ch1) Forward Net, (Ch2) Reverse Net	10	0.1	1	0.1	1
Optional	Yes	(Ch1) Forward Net, (Ch2) Reverse Net	30	0.1	1	0.1	1
Optional	Yes	(Ch1) Forward + Reverse, (Ch2) Direction Flag	10	0.1	1	D Flag*	
Optional	Yes	(Ch1) Forward + Reverse, (Ch2) Direction Flag	30	0.1	1	D Flag*	

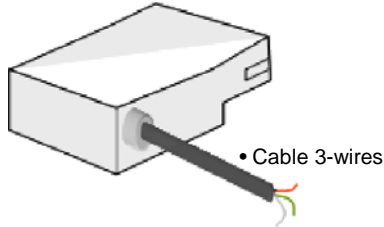
* Flag that shows the Direction of Flow

** Must be done before being shipped

evoQ₄ ENCODER MODULE FITTING AND WIRING GUIDE

■ evoQ₄ Encoder Package Parts

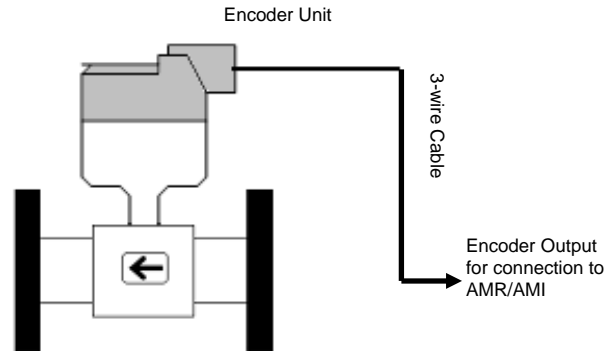
- Encoder Unit



■ evoQ₄ Encoder Unit Specifications

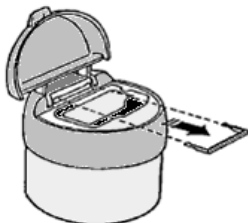
- Operating temperature: 14°F to 130°F
- Maximum transmitting distance: 650 ft
- Battery Powered: 10 years
- Environmental Rating: IP68

■ evoQ₄ Encoder Version Schematic

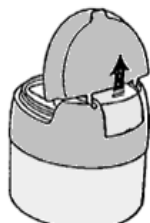


- Standard cable length supplied is 10 metres
- 30m cable is optional (contact Elster for details)

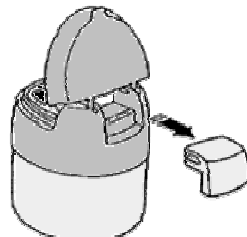
■ Encoder Unit Fitting Instructions



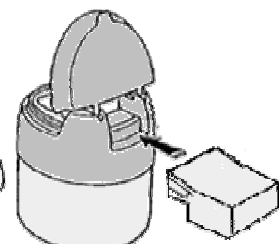
1. Lift the lid. Using a small screwdriver blade, carefully remove the pulser clip.



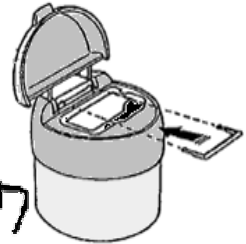
2. Remove the blank cover by lifting it up...



3. ...and then slide out



4. Fit the Encoder unit in the opposite manner to the cover removal*



5. Replace the securing clip (lugs uppermost)

*** WARNING:** Take care not to dislodge the rubber gasket on the underside of the unit when fitting / removing

■ Encoder Option Output Value

MX39 Module

Units of registration Smallest Output Value

USG 1000 USG

CuFt 100 CuFt

M3 1 M3

■ Encoder Generic Wire Diagram

Red	White	Black
Data	Power	Common



evoQ4 Remote Display & Output Module Installation Instructions

WNC710-01
Issue 06
5/27/2010
DCR021-10

evoQ₄ ENCODER MODULE WIRING GUIDE

DEVICE	EvoQ4 MX-39 PULSER				EvoQ4 MX-39 ENCODER		
	G	B	R	W	R	W	B
	Common	Tamper	Ch. 1	Ch. 2	Data	Power	Common
Fully tested for compatibility							
Datamatic Firefly	Brown	CUT	Blue	N/A	White	Red	Black
Datamatic Firefly Mosaic	Black	Green	Blue	N/A	Green	Red	Black
Evolution™ Pulser	Red	Green	Black	N/A	N/A	N/A	N/A
Evolution™ Encoder	N/A	N/A	N/A	N/A	Red	Green	Black
Aclara (Hexagram) MTU	Black White	None	Red	N/A	White	Red	Black
Itron 50W Fixed or Remote ERT	Red	Green	Black	N/A	Red	Green	Black
Itron 50W Pit ERT	Bare	Black	Red	N/A	N/A	N/A	N/A
Itron 60W	N/A	N/A	N/A	N/A	Red	Black	White
Itron 60WP	White	Black	Red	N/A	N/A	N/A	N/A
Itron 60WR + Cable	N/A	N/A	N/A	N/A	Red	Green	Black
Itron 60WRP +Cable	Red	Green	Black	N/A	N/A	N/A	N/A
Itron 60WR Fixed	N/A	N/A	N/A	N/A	Brown	Grey	Yellow
Itron 60WRP Fixed	Yellow	Grey	Brown	N/A	N/A	N/A	N/A
Itron 200WM	Red	Black	White	N/A	Red	Black	White
Itron 200WP	Red	Black	White	N/A	Red	Black	White
Rex Fixed or Remote	N/A	N/A	N/A	N/A	Black	Red	Bare
Rex Pit	N/A	N/A	N/A	N/A	Black	Red	Bare
Pitpad	N/A	N/A	N/A	N/A	Red	Green	Black
Compatibility testing not completed							
Trace Fixed or Remote	Bare	Black	Red	N/A	N/A	N/A	N/A
Trace Pit	Bare	Black	Red	N/A	N/A	N/A	N/A
Mars Smart Radio	Black	Red	Green	N/A	Green	Red	Black
Ramar TransPondIT	2 Red	3 Green	1 Black	N/A	3 Red	1 Green	2 Black



evoQ4 Remote Display & Output Module Installation Instructions

WNC710-01
Issue 06
5/27/2010
DCR021-10

evoQ₄ SENSUS ENCODER MODULE WIRING GUIDE

DEVICE	EvoQ4 Sensus ENCODER		
	R	W	B
	Data	Power	Common
Compatibility testing not completed			
Neptune R900	Red	Black	Green
Sensus MXU	Green	Red	Black