

PR7 H4000 pulse module

High data quality and flexibility
for remote metering



PR7 for North America	
Part number	2925M1224
Cable length	15 ft (3 m)
Battery life	10 years
Operating temperature	5 - 160 °F (-15 to 70 °C)
Environmental class	NEMA6 (IP68)
Output load	max 30 VDC
	max 30 mA
Pulse frequency	max 75 Hz
Duty cycle	1:1

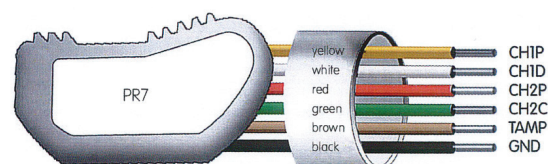
Pulse values	Channel 1 (CHIP)	Channel 2 (CH2P)
1.5" - 4" (DN40 - DN100)	1 gallon / pulse (1 L / pulse)	10 gallons / pulse (10 L / pulse)
6" - 12" (DN150 - DN300)	10 gallon / pulse (10 L / pulse)	100 gallons / pulse (100 L / pulse)
Min pulse width	5 ms (typical 8 - 12 ms)	50 ms

PIN assignment	
CHIP	Volume pulses (independent of flow direction), active "low"
CH1D	Direction flag, "high" = forward flow
CH2P	Adjusted volume pulse = forward flow minus backflow, active "low". During a backward flow, no pulses are sent to the output. After renewed forward first the pulse numbers which are stored in the memory will be deleted. These pulse numbers are generated from the previous backward flow. After deleting the memory forward pulses will be sent to the output only.
CH2C	Backflow compensations flag. This flag is "low", if currently in backflow compensation is running.
TAMP	Alarm flag, signals the removal of the pulse module from the register or low charge of battery, active "high"
GND	Ground

PR7 H4000 pulse module

- For Elster water meters with communication interface, from year of construction 2008
- Pulse module with two outputs
- Integrated forward and backflow

PIN assignment Pulse module



Calculating pulse weights when fitted with PR7 inductive pulser:

Pulse weight is calculated by multiplying the register 'pulse factor' (P) by the PR7 'K-factor' (K);
 Pulse weight (litres per pulse) = P x K.

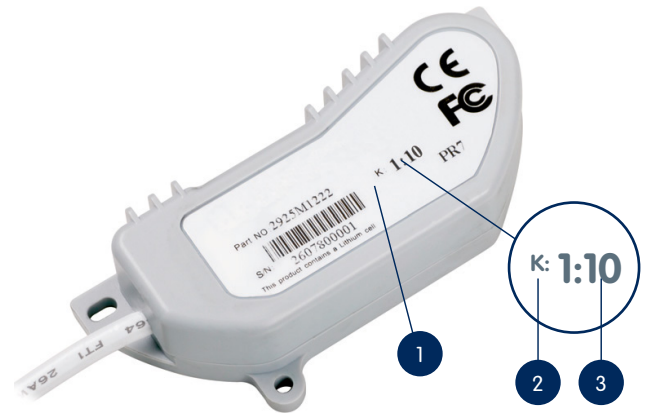
Size	Pulse factor	K-factor	
		K1	K10
1 1/2"	P:1	1 ltr / 1 Gal	10 ltrs / 10 Gal
2"	P:1	1 ltr / 1 Gal	10 ltrs / 10 Gal
3"	P:1	1 ltr / 1 Gal	10 ltrs / 10 Gal
4"	P:1	1 ltr / 1 Gal	10 ltrs / 10 Gal
6"	P:10	10 ltr / 10 Gal	100 ltrs / 100 Gal
8"	P:10	10 ltr / 10 Gal	100 ltrs / 100 Gal
10"	P:10	10 ltrs / 10 Gal	100 ltrs / 100 Gal
12"	P:10	10 ltrs / 10 Gal	100 ltrs / 100 Gal

PR7 is an open collector pulse transmitter suitable for data logging, AMR and telemetry equipment. Check with your equipment supplier for full details of compatibility.

Pressure equipment directive 97/23/EC. This product is applicable in networks for the supply, distribution and discharge of water and associated equipment and is therefore exempt.



- On this example 2" H4000 register, the user can identify from the dial plate both the:
 - Type of pulser to use, i.e. PR7
 - Pulse factor, i.e. P:1



- On the PR7 unit the user can identify from the label the K-Factors for each output channel
- Primary output K-factor
- Secondary output K-factor