

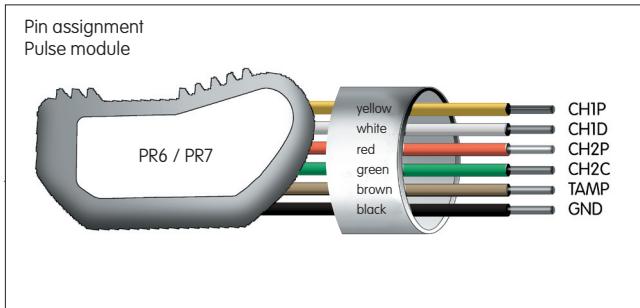
PR6 / PR7

Falcon communication modules

High data quality and flexibility
for remote metering



- For ELSTER water meters with communication interface, from year of construction 2008
- Pulse modules with two outputs
- EMERIS radio module
- M-Bus module acc. to EN13757
- Integrated forward and backflow detection
- Non-reactive and tamper-resistant



Application for meters of type:

PR6/PR6M/TPR6

V200
V210
V220F
C4000 bypass meter

PR7/PR7M/TPR7

H4000
H4200
S2000
C4000 main meter
C3100 main meter
all of them from
year of construction 2008

Radio module	Ordering number			
internal antenna	TPR6 2925M1272	TPR7 2925M1276		Operating temperature
external antenna (2 m fixed cable)	2925M1273	2925M1277		-15 °C up to +70 °C
Protocol				Protection class
Frequency technology				IP68
Frequency				Battery lifetime
Type of transmission				up to 15 years
Transmitting power	mW			
Range	m	25		
Connection velocity		up to 9.6 kbit/s		
Power of emission		8 dBm		
Standard		CE (EN300-683)		
Certification		ART (EN300-220-1)		
Conformity		RTTE 99/5/EC		
			Protocol content	
			Minimum	Initial meter reading
				Pulse value
			Data memory	24 values
				programmable
				- monthly, weekly, daily values
				- free interval (1 min - 31 h.)
			Alarm signal	Battery, cable break, burst pipe, backflow, manipulation
				Day/night switch off
				weekend switch off
				via ECM software
			Time management	
			Programming	

M-Bus module	Ordering number		Protocol content	
Standard	PR6M 2925M1268	PR7M 2925M1269		13 monthly volume values with date
EN13757				13 flow rate maximum values with date
Connecting cable	m	2 5		13 leakage alarm
		2 wires reverse polarity protection		Due date volume
Power supply		Remote power supply of the M-Bus with automatic changeover to battery if the bus fails		Date and time
M-Bus operation		max. 1.5 mA (I standard load), standby current M-Bus max. 1.5 mA, typ. 1.4 mA		Alarm signal
				- battery
Space (0-Bit) current M-Bus Interface		standby current + typ. 13 mA TI TSS721 with 2 x 2150Ω protective resistor		- manipulation with date
				- backflow with date
Operating temperature		-15 °C up to +70 °C		pulse value
Protection class		IP68		momentary flow rate l/h or m³/h
Connection velocity		300 and 2400 Baud		flow rate calculation 1 min – 60 min
				backflow volume
				decimal place
				switchable
				for important settings via MB Conf-software
			Primary/secondary addressing	with wildcard
			Supported functions	FCB-Bit, SND_NKE, REQ_UD2, SND_UD, RSP_UD

Pulse module	Ordering number		Pin assignment	
CH1P	CH2P		CH1P	Volume pulses (independent of flow direction), active „low”
1 litres/pulse*; 10 litres/pulse*	PR6 2925M1265	PR7 2925M1224	CH1D	Direction flag, „high” = forward flow
1 litres/pulse*; 100 litres/pulse*	2925M1261	2925M1263	CH2P	adjusted volume pulse = forward flow minus backflow, active „low”.
1 litres/pulse*; 1000 litres/pulse*	2925M1262	2925M1264		During a backward flow no pulses are send to the output. After renewed forward first the pulse numbers which are stored in the memory will be deleted. This pulse numbers are generated from the previous backward flow. After deleting the memory forward pulses will be send to the output only.
Connecting cable	m	2 5		Backflow compensations flag. This flag is „low”, if currently a backflow compensation is running
Battery lifetime		10 years		Alarm flag, signalizes the removal of the pulse module from the register or low charge of battery, active „high”
Operating temperature		-15 °C up to +70 °C		Ground
Protection class		IP68		
Output load	max.	30 Vdc		
	max.	30 mA		
Frequency	max.	75 Hz		
Pulse width CH 1P	min.	5 ms (typical 8-12 ms)		
Pulse width CH 2P	min.	50 ms		
Pulse/pause		1:1		

* for meters up to DN 125/Qn 100, from DN 150/Qn 150 upwards pulse rate x 10.
Other pulse versions on request

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