

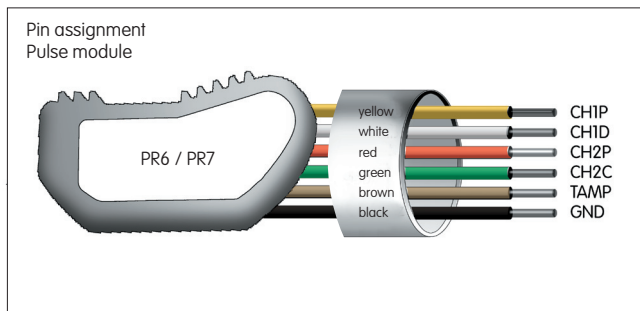
PR6 / PR7

Falcon communication modules

High data quality and flexibility
for remote metering



- For ELSTER water meters with communication interface
- 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

C4000 bypass meter

PR7/PR7M/TPR7

H4000
H4200

S2000
C4000 main meter
C3100 main meter

Radio module		Ordering number		Operating temperature	-15 °C up to +70 °C
internal antenna		TPR6	TPR7	Protection class	IP68
external antenna (2 m fixed cable)		2925M1301	2925M1305	Battery lifetime	up to 15 years
		2925M1302	2925M1306	Protocol content	
Protocol	Wavenis			Minimum	Initial meter reading
Frequency technology	FHSS (15 radio channels) (Frequency Hopping Spread Spectrum)			Data memory	Pulse value
Frequency	868 MHz, ISM band				24 values
Type of transmission	Bi-directional				programmable
Transmitting power	25 mW				- monthly, weekly, daily values
Range	up to 600 (depending on env. circumstances)			Alarm signal	- free interval (1 min - 31 h.)
Connection velocity	up to 9.6 kbits/s				Battery, cable break, burst pipe, backflow, manipulation
Power of emission	8 dBi			Time management	Day/night switch off weekend switch off
Standard	CE (EN300-683)			Programming	via ECM software
Certification	ART (EN300-220-1)				
Conformity	RTTE 99/5/EC				
M-Bus module		Ordering number		Protocol content	
Standard		PR6M	PR7M	13 monthly volume values with date	
EN1434		2925M1268	2925M1269	13 flow rate maximum values with date	
Connecting cable	m 2 5	2 wires reverse polarity protection		13 leakage alarm	
Power supply	Remote power supply of the M-Bus with automatic changeover to battery if the bus fails			Due date volume	
M-Bus operation	max. 1.5 mA (1 standard load), standby current M-Bus max. 1.5 mA, typ. 1.4 mA			Date and time	
Space (0-Bit) current	standby current + typ. 13 mA			Alarm signal	
M-Bus Interface	TI TSS721 with 2 x 2150ohm protective resistor			- battery	
Operating temperature	-15 °C up to +70 °C			- manipulation with date	
Protection class	IP68			- backflow with date	
Connection velocity	300 and 2400 Baud			pulse value	
				momentary flow rate l/h or m ³ /h	
				flow rate calculation 1 min – 60 min	
				backflow volume	
				decimal place	
				switchable	
				for important settings	
				via MB Conf-software	
				Long and short telegram	
				Write protection	
				Programming	
				Primary/secondary addressing	
				with wildcard	
				Supported functions	
				FCB-Bit, SND_NKE, REQ_UD2, SND_UD, RSP_UD	
Pulse module		Ordering number		Pin assignment	
CHIP		PR6	PR7	CHIP	
1 litres/pulse*;	10 litres/pulse*	2925M1265	2925M1224	Volume pulses (independent of flow direction), active „low“	
1 litres/pulse*;	100 litres/pulse*	2925M1261	2925M1263	CH1D	
1 litres/pulse*;	1000 litres/pulse*	2925M1262	2925M1264	Direction flag, „high“ = forward flow	
1 litres/pulse;	1 litres/pulse	2925M1221**	—	CH2P	
10 litres/pulse*;	10 litres/pulse*	—	2925M1222	adjusted volume pulse = forward flow minus backflow, active „low“.	
25 litres/pulse*;	25 litres/pulse*	—	2925M1282**	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			CH2C	
Battery lifetime	10 years			Backflow compensations flag. This flag is „low“, if currently a backflow compensation is running	
Operating temperature	-15 °C up to +70 °C			TAMP	
Protection class	IP68			Alarm flag, signalizes the removal of the pulse module from the register or low charge of battery, active „high“	
Output load	max. 30 Vdc max. 30 mA			GND	
Frequency	max. 75 Hz			Ground	
Pulse width CH 1P	min. 5 ms (typical 8-12 ms)				
Pulse width CH 2P	min. 50 ms (**CHIP also)				
Pulse/pause	1:1 (**CHIP also)				

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

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