

Engelmann **Radio Module**

FAW

Radio module wireless M-Bus for water meters with Modularis System



Automatic activation after placing on the water meter

Mountable without cables

Tampering detection: removal or magnetic

Return flow detection

Typical battery capacity of 12+1 years

Communication interfaces: wireless M-Bus or optical interface

General

Temperature range medium	°C	0 – 105
Ambient temperature: storage and in the field	°C	1 – 55
Transport temperature minimum	°C	-20 for 7 days
Transport temperature maximum	°C	70 for 24 hours
Data storage		read-only memory; once daily
Tampering detection		removal; magnetic;
Interfaces		wireless M-Bus and optical interface (M-Bus protocol)
Protection class		IP68
Billing date options		annually variable (days 1-31; except 29.02.); monthly variable (days 1-28)
Stored monthly values		72 monthly values
Power supply	V	3; lithium battery
Battery capacity, designed	years	12 (operation) + 1 (storage)

wireless M-Bus radio interface

Radio protocols		“short telegram” compliant with the OMS (AMR) (serial number FAW or water meter, current value, hint flag, serial number FAW); “long telegram” for walk-by readout (serial number FAW or water meter, current value, billing (due) date, billing date value, 15 monthly values, hint flag, serial number FAW)
Transmission power	dBm	13
Transmission frequency	MHz	868
Radio mode		adjustable: C1; T1; S1
Encryption		AES 128
Encryption mode		Mode 5 / Mode 7
Start date of radio transmission		annually variable (except 29.02.)
Transmission times (UTC+1)		transmission interval: 2 – 240 min transmission times per day: 12 a.m. – 12 p.m. transmission days per week: Mon – Sun transmission weeks per month: 1 – 4 transmission months per year: Jan – Dec

Weight

Weight	kg	0.54 (packaging unit of 10 pieces)
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Dimensions

Additional housing above display of water meter	mm	14
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