



Frequency Transmitter

Hz → mA

Hz → V_{DC}



measuring
•
monitoring
•
analysing

FMU



- Frequency measuring to 40 kHz
- Simple default
- Supply for NPN-, PNP and NAMUR transducers
- Electrical isolation
- Conversion to 0-20 mA, 4-20 mA or 0-10 V signals

Z2



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Description

The model FMU-... frequency transmitter transforms a frequency signal to a standardised analogue signal. The housing is state of the art and designed for standard rail installation. 230 V_{AC}, 115 V_{AC} or 24 V_{DC} are available as supply voltages.

The transmitter as two separate modules, output and power which are electrically isolated from each other. The isolating voltage is 2 kV_{eff}. The process measurement signals 0-20 mA, 4-20 mA or 0-10 V are available as outputs. Input and output signals are selected by means of different terminal assignments and jumpers.

Potentiometers are used for remote adjustment.

We recommend the factory carryout device settings.



Technical Details

- Measurement input: up to max. 40 kHz
NPN-, PNP-, Namur transducer
AC measuring signals
(>100 mV, <400 V_{AC})
- Output: 0-20 mA, 4-20 mA and 0-10 V_{DC}
- Load: 0/4-20 mA - 600 Ω
- Power supply: 230 V_{AC}, 115 V_{AC} or 24 V_{DC}
- Accuracy: ±0.2%
- Temp. coefficient: 0.015%/°C
- Response time: ≤250 ms
- Insulation level: 2 kV_{eff}
- Ripple factor: ≤0.5%
- Bandwidth: 1.5 Hz (- 3 dB)
- Power: 1.5 VA max.
- Sensor supply: 24 V_{DC} max. 25 mA
- Operating temp.: -10...+60 °C
- Storage temperature: -30...+80 °C
- Dimensions: 75x45x110 mm (HxWxD)
- Case material: polycarbonate
- Protection type: IP 40 (case)
IP 20 (terminal block)
- Mounting: DIN-rail mounting according to DIN 46277 and EN50022 (35 x 7.5 mm)
- Wire cross-section: max.4 mm²
- Weight: approximately 270 g

Calibration Certificate

The transmitters can be delivered with KOBOLD calibration certificates upon request and at extra charge.

Order Details (Example: FMU-1 0 0 0)

Model	Sensor	Output	Supply	Default
FMU-...	1 = NPN 2 = PNP 3 = Namur 4 = AC	0 = 0-20mA, 0-10 V 4 = 4-20mA, 0-10 V	0 = 230 V _{AC} 2 = 24 V _{DC} 4 = 115 V _{AC}	0 = without V = preset ...Hz

Please specify exact frequency when placing your order. The transmitters cannot be used with model ZDM... gearwheel flow meters.

Pin Assignment

