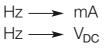


## **Frequency Transmitter**





measuring • monitoring • analysing





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Model: FMU...



#### 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<sub>eff</sub>. 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**

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Measurement input:	up to max. 40 kHz NPN-, PNP-, Namur transducer AC measuring signals (> 100 mV, < 400 V <sub>AC</sub> )		
Output:	0-20 mA, 4-20 mA and 0-10 $V_{\text{DC}}$		
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 <sub>eff</sub>		
Ripple factor:	$\leq 0.5\%$		
Bandwidth:	1,5 Hz (-3dB)		
Power:	1.5 VA max.		
Sensor supply:	24 V <sub>DC</sub> max. 25 mA		
Operating temperature:	-10+60°C		
Storage temperature:	-30+80°C		
Dimensions:	75 x 45 x 110 mm (H x W x D)		
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 mm <sup>2</sup>		
Weight:	approx. 270 g		

#### **Calibration Certificate**

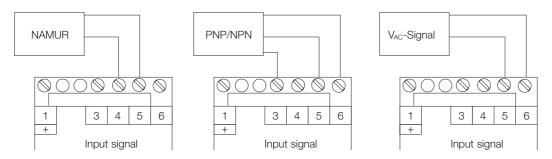
The transmitters can be delivered with KOBOLD calibration certificates upon request and at extra charge.

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

Model	Sensor	Output	Supply	Default
FMU	<b>1</b> =NPN <b>2</b> =PNP <b>3</b> =Namur <b>4</b> =AC	<b>0</b> =0-20 mA, 0-10 V <b>4</b> =4-20 mA, 0-10 V	0=230 V <sub>AC</sub> 2=24 V <sub>DC</sub> 4=115 V <sub>DC</sub>	0=without V=preset toHz

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

#### **Pin Assignment**



# 02 / 06-2007