

IFM Universal Frequency to Analog Converter/Speed Switch

Item number: IFM0001

The IFM Universal Frequency to Analog Converter/Speed Switch is a high-performing signal conditioner that offers unmatched frequency transmission capability. Detachable programming window makes it easy to program and recalibrate the device, as well as mirror existing configurations to save time.



Measure frequencies and provide analog output for deployment in many applications

Features and benefits

- ✓ **Wide range of frequency inputs**
Measures frequency inputs (NPN, PNP, Tacho, & TTL) from 1 Hz to 100 KHz.
- ✓ **Flexible output**
Programmable bipolar mA / V or relay. Provides an analog output proportional to the input signal.
- ✓ **User-selectable voltage output**
Buffered voltage output ± 10 VDC.
- ✓ **Program once and download to other units**
Easy to configure using the detachable programming display module (PGMMOD). Save time by programming one unit and downloading the configuration to others.
- ✓ **Designed for harsh environments**
Engineered to deliver uncompromising performance in demanding environments.
- ✓ **Universal power supply**
Universal power supply with 21.6 to 253 VAC and 19.2 to 300 VDCs.
- ✓ **Fully isolated and protected**
2.3 kVAC, 3-port galvanic isolation. All terminals are over-voltage protected (24 VDC), polarity protected and short-circuit protected.
- ✓ **User-selectable current output**
Active and passive current output ± 23 mA / 0 to 23 mA.
- ✓ **Built-in relay output**
Provides over-speed, under-speed or zero-speed detection. Output relay with windows, setpoint and latch functionality.
- ✓ **Easy installation**
Units can be mounted side by side, horizontally and vertically, without air gap on a standard DIN rail – even at 60 °C ambient temperature.
- ✓ **Industry certified**
UL-listed approval.

IFM Universal Frequency to Analog Converter/Speed Switch



General	
Net Weight (g)	159.89118
Packed Weight (g)	159.89118
Operating Temperature °C Min	-20
Operating Temperature °C Max	60
Storage Temperature °C Min	-20
Storage Temperature °C Max	85
Relative Humidity	< 95% RH (non-cond.)
Power Consumption (W)	2.6
Input Voltage (V)	21.6 to 253 VAC
Maximum Installation Altitude (m)	2000
Mounting	DIN rail mount (bracket included)
Packaging Material	Cardboard
Warranty (years)	2
Identification and Status	
Product ID	IFM0001
Country of Origin	United States of America (the)
HS Code	9031808000
Dual Usage	No
Export Control Classification Number (ECCN)	EAR99
Physical Features	
SD Card Slot	No

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Physical Features

Flash Drive	No
Contains Battery	No

Certifications and Standards

Protection Class IP	IP20
RoHS Compliant	Yes
CE	Yes
FCC	No
UKCA	Yes
UL	Yes
ATEX	No
DNV	No
KC	No
Vibration and Shock	Vibration: IEC 60068-2-6