

IFM06 Integrating Fluxmeter

Hirst Magnetic Instruments Ltd IFM06 digitally controlled integrating flux meters extends the range of Hirst's compact desktop instruments. Designed for factory floor and laboratory use the instrument offers a simple menu driven interface, or can be integrated with industrial control systems.



FEATURES

- Automatic Drift Correction
- USB and RS232
- PLC Digital Interface
- Pass limit testing
- Standard 4mm Signal connections
- SCPI Instrument Control

The IFM06 instrument has automatic and manual drift correction available and can be used in environments where rapid measurements are necessary. Excellent long term drift stability.

RS232, USB and PLC interfaces are included as standard. Full instrument control is possible via these interfaces enabling full factory automation. USB and RS232 Interfaces

The IFM06 can measure magnetic flux, magnetic flux linkage, magnetic flux density or magnetic field strength.



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When used with a Helmholtz coil the IFM06 is ideal for the inspection of magnetised magnets. And it is possible to measure the magnetisation level of magnetised permanent magnets.

A 24v isolated interface provides the ability to link the IFM06 to external equipment for automatic quality control. Inputs are included to start and reset the measurement process and outputs are provided for pass and fail indication.



The IFM06 can also be controlled via digital interfaces including a RS232 port and a USB port. The commands to control the instrument use the SCPI standard which makes integrating with other equipment straight forward and also very easy to use the interface manually as well. A CanOpen interface is also provided for interfacing with other Hirst equipment and other CanOpen compliant equipment. An analogue output $\pm 5v$ is also provided.



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The IFM06 also features a graph display option that will show a graphical representation of the measured signal. The Y-Limits and time base are adjustable. Full menu driven back lit touch screen interface provides access to all settings and parameters. The screen can also display in light or dark mode as a user preference. High reliability physical buttons



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Specifications

Measurement Ranges	4	Analogue out	+/- 5V
Range 1	+/- 1.00000 mVs resolution 10nVs	Signal Input	4mm "Banana" Plugs
Range 2	+/- 10.0000 mVs resolution 100nVs	Accuracy	+/-1% (DC) Traceable
Range 3	+/- 100.000 mVs resolution 1uVs	Reproducibility	+/- 1%
Range 4	+/- 1.00000 Vs resolution 10uVs	Units	Vs, Wb, Mx, Tesla*,kA/m*, Oersted*, Gauss* * With calibrated coil
Power supply Operating Voltage	90—264 V AC	Operating Temp	+5° C to +40° C
Power Supply Frequency	47-63 Hz	Storage Temp	-20°C to +70° C
Fuse Rating	3.15A T HBC	Dimensions	260 x 180 x 280 mm approx
Digital Interfaces	RS232, USB, 24v IO	Weight	1kg approx
Communication s	SPCI / ASCII		

A fluxmeter always required a coil to make measurements. A range of search coils and Helmholtz coils are available for use with the IFM06. Our standard Helmholtz coil is available in sizes 150mm, 200mm, 300mm, 400mm and 500mm diameter. Larger diameters available on request.



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