

FE-M16-DS 16 Channel Monitor



Front panel shown actual size

A 16-channel digital monitor, the M16-DS is ideal for use in any FYLDE enclosure where it will monitor and display the outputs from each installed module.

It provides a switchable selection for 16 differential inputs or 32 single ended inputs.

It is normally purchased as part of a system of Fylde modules, configured to select from multiple signals in the system. (Typically this would be all system outputs and all transducer excitation voltages).

The monitor will also measure A.C. with its built in precision rectifier scaled for RMS.

A peak hold function completes the display options for time varying signals.

A front panel BNC socket enables additional monitoring equipment to be connected.

- 5 Digit Accuracy
- DC or AC (RMS)
- 8 Digit Display
- 16 Differential Inputs
- 32 Single Ended Inputs

SPECIFICATION

The FE-M16-DS is a 16 channel monitor unit, normally used in a FYLDE system to provide a display of each channel's output. The unit allows any of DC, AC rectified average, or peak hold to be selected and displayed for any channel. 16 channels of differential inputs are available, or in systems with more than 32 signals to monitor, the module provides 32 single ended inputs.

METER	Display Sample Rate	8 digit Red LED, 5 mm high, 5x7 dot matrix 16.7 readings / second.
DC	Scaling Accuracy Stability	±10.239 volts dc. 0.05 % ±1 count @ 20°C. 25 ppm / °C.
AC	Measurement type Accuracy Scaling Frequency Range	Precision rectifier. ±1% conversion. RMS (Average responding) 0 - 7.07v (20v pk-pk). 20 Hz - 20 kHz 1%
Peak Hold	Peak Capture Display Reset Polarity Droop	Internal Positive and Negative Peak hold circuits. Peak held digitally on display. Options for reset of peak hold by front panel controlled menu. Options for Positive or Negative peak or Peak to Peak by front panel controlled menu. Display of previous peak is held until next peak exceeds internal store of previous peak or peak is reset.
Input	Switching	16 fully differential input channels, or 32 Single Ended input channels
Output	Connector Output impedance	BNC - Monitoring the selected input signal. 100 Ω
Mechanical	Width Compatible Enclosures	2 inches. FE-PE4 with two 1 inch modules or one 2 inch module. FE-PE8 with six 1 inch modules or three 2 inch modules. FE-PE17 with fifteen 1 inch modules or seven 2 inch modules.
Power	Normally 230 V mains.	May also be configured as 115 V mains or 12 V DC powered.