

MC-01 series Electronic Control Units

The MC-01 series are panel mounting micro-processor based control instruments for flow rate and batching control. They are fully user programable and will adapt directly to any TM-44 turbine, COVOL output, or equivalent pulse generating or analog output transducers.

Applications

- Automated process control in any industry with flow rate measurement and volume control.

Benefits

- Direct interface to Turbines, Covol etc.
- Direct interface for analog inputs.
- Fully programable by user.
- Battery back-up stores all data on power failure.
- Flow rate readout in l/h and m³/h.
- Adaptive filter gives stable flow rate readings.
- Volume totalizing counter.
- Volume partial counter.
- Batching relay.
- 16 character x 2 line LCD alpha-numeric display.
- 6 display modes for different combinations of data.
- Optional remote start push button for batching.
- Optional back light for the display.
- Optional analog output for process control.
- Standard DIN 96 x 96 panel mounting.
- Plug in connections with screw terminals for easy installation and maintenance.
- Optional IP-65 front protection.



Technical Data

- | | | | |
|-----------------------|---|--|----------------------------|
| • Power supply | 110, 220-240, 24 V ac 50-60 Hz
12(not for analog output), 24 VDC | • Analog input resistance for mA = 60 ohms | |
| • Power consumption | < 3 VA | • Remote batch start | By means of a push button |
| • Input signal TM-44 | 20 mV...3 V ac, 0...2000 Hz | • Precision | 0.01 % (0.4% analog input) |
| • Input signal COVOL | Reed contact, 0... 100 Hz | • Temperature range | -10°C..... 60°C |
| • Input signal Analog | 0-20 mA, 4-20 mA, 0-5 V dc,
0-10V dc, 1-5 V dc, 2-10 V dc | • Analog output | 12 bit resolution |
| | | • Relay | 1 A, 250 V ac, 60 VA |



Ordering Information

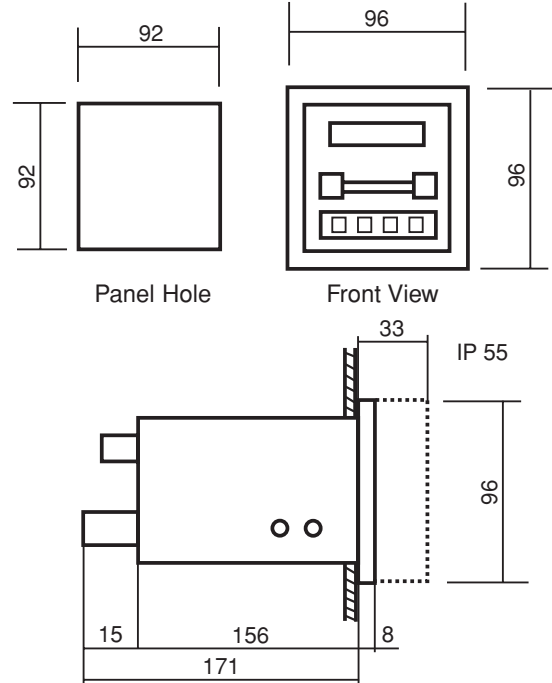
MC-01/ a / b / c / vvv

- a = Analog Output signal**
 Not available with analog input
- = **A** 0 - 20 mA
 - = **B** 4 - 20 mA
 - = **D** 0 - 5 V dc
 - = **E** 0 - 10 V dc
 - = **F** 1 - 5 V dc
 - = **G** 2 - 10 V dc
 - = **X** No analog output

- b = Software version**
- = **S** Standard version
 - = **H** Hectolitre version

- c = Input Type**
- = **1** COVOL
 - = **2** Turbine Pick-up
 - = **3** TTL
 - = **4** for 12 volt proximity detectors
 - = **5** for 5 volt pulse generators or open collector
 - = **6** Analog input (specify type and range)

- vvv = Power supply voltage**
- = **110** 110 V ac 50-60 Hz
 - = **220** 220-240 V ac 50-60 Hz
 - = **024** 24 V ac 50-60 Hz
 - = **12d** 12 V dc (not with analog output)
 - = **24d** 24 V dc



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Flowmeters

- Tapered metering tube in Borosilicate glass
- Tapered metering tube in transparent plastic
- Variable area with metal metering tube and indication by magnetic transmission
- Target disc with indication by magnetic transmission
- Orifice plate with by-pass flowmeter
- Electromagnetic flowmeters
- Vortec

Counters

- COVOL (rotating piston volumetric counter)
- TM-44 (turbine type flowmeter)

Levels

- Limit switches
- Level indicators
- Level transmitters with analog output (4-20 mA etc.)

Electronic Equipment

- APTM44 - Pulse amplifiers
- MC-01 - Programable flow indicators with batching
- MT-02 - Programable counters for batching
- CI420 - Programable frequency to analog output converters (4-20 mA etc.)
- DFD - Programable frequency dividers

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