



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 programmable 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 programmable 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

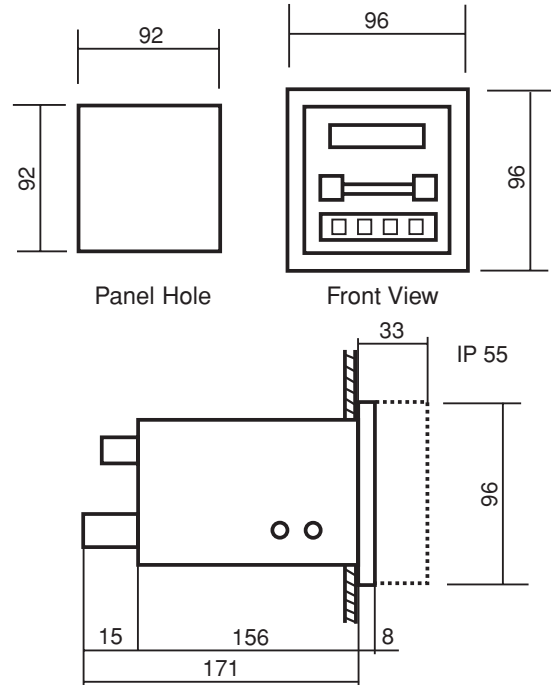
MC-01/ a / b / c / vv

- 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)

- vv = 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



Tecfluid designs and manufactures measuring instruments for liquids and gases, employing the most advanced technologies.

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

We are at your service, please consult us.

TECFLUID develops and manufactures instruments for gases and liquids, using the most advanced techniques.

Request Information by telephone nº (34 3) 372 45 11



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The technical data in this pamphlet is subject to modification without notification, if the technical innovations in the product or manufacturing processes so require.