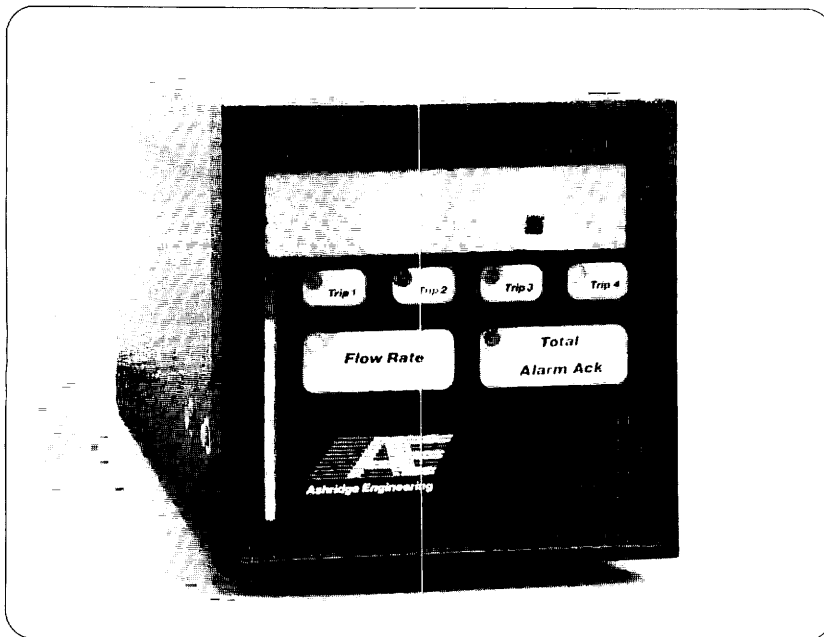


SERIES 851 FLOW INDICATOR/CONTROLLER



STANDARD FEATURES

- Analogue or pulse input signals
- Full 6 Digit Display
- 2 Alarm/Control relays
- Tamperproof data entry
- Percentage Bargraph
- Totalising

OPTIONAL FEATURES

- Corrected Analogue retransmission (Standard or full isolated)
- Max 4 Alarm/Control relays

ANCILLARY EQUIPMENT

- Pressure transmitters
- Differential pressure transmitters

MODEL 851 FLOW INDICATOR AND CONTROLLER

Flow controller with flow law characterising facilities i.e. Flow non-linear shape correction ('K' factor) via 11 point curve fit linearisation program.

6 Digit readout in Flowrate and total, with easily understood front panel.

Digital scaling facility, for analogue or pulse inputs which enables use of standard range of transmitter with the span set via the software.

Annunciation of HI-AL & LO-AL messages, alternating with capacity value when high and low set points are exceeded.

Alarm acknowledgment is made via the front panel membrane switch.

Bargraph percentage indication of flowrate.

2 versions, 96 X 96 DIN panel mounted and wall mounted version weatherproof to IP67 with optional analogue % indicator.

The 851 controller is designed to accept signals from a wide range of industrial flowmeters with pulse outputs or differential pressure transmitters which give an analogue signal which is proportional to flowrate.

Output pulse from open collector transistor can be used to operate remote totaliser.

The 851 also acts as a 24 volts DC power supply for a 4-20 ma transmitter, avoiding the need to purchase extra power supplies.

Corrected analogue signal can be retransmitted using a standard 4-20 ma loop or 0-10 and 0-20 ma can also be catered for.

Programming of the 851 can only be achieved using plug in keypad which restricts adjustments to qualified personnel only.

SPECIFICATION

Power input

90-120, 185-240 or 205-265 vac 50 Hz

Input signal options

0-1, 0-10, 0-20 or 4-20 ma, 0-1, 0-10, 1-5 volts dc or pulse input 6-5000Hz (10-24 v pk/pk)

A/D resolution: 14 bit \pm lsb, temp coefficient: Less than 50 ppm/ $^{\circ}$ C

Output signal

Open collector pulse output for remote totaliser

Output signal (optional)

0-1, 0-10, 0-20 or 4-20 ma

D/A resolution

12 bit \pm lsb, temp coefficient less than 20 ppm/ $^{\circ}$ C

Relay outputs

Up to 4 relays each with 1 amp 250vac resistive load change-over contacts, individually programmable for set point and hysteresis and options of alarm or control modes.

Electrical connections

Relay connections via 12 way, 2 part terminal block

Input/output connections via 10 way, 2 part terminal block

Environmental

0-95% relative humidity (non condensating), 0-45 $^{\circ}$ C ambient temperature

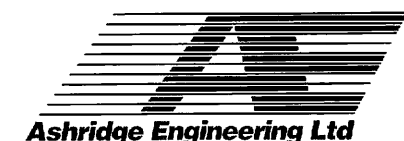
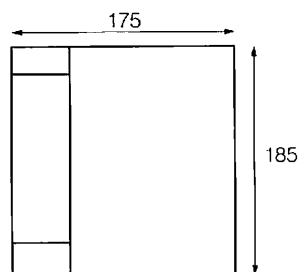
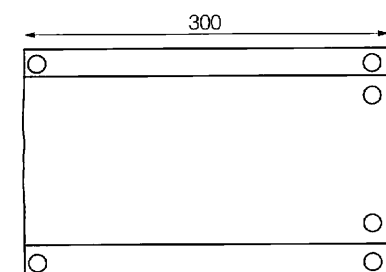
Wall mounted version to IP67

Dimensions

Panel mounted: 96 X 96 DIN by 161 mm deep, panel cut-out 92 X 92mm

Wall mounted: 300 X 185 X 175 mm deep

Wall mounted: 300 X 185 X 175 mm deep, with hinged glazed door IP67



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851-991

Subject to change without notification

OPTIONS/ORDERING CODE

851 = Flow computer

F/ = Flowrate + Total

MD/= Megalitres per day + Total

Other membrane fascias can be customised for OEM users

851F/Power input

1/ 90-120 vac 50Hz

2/ 185-240 vac 50Hz

3/ 205-265 vac 50Hz

851F/3/Signal input

1/ 0-1 ma

2/ 0-10 ma

3/ 0-20 ma

4/ 4-20 ma

5/ 0-1 volts

6/ 0-10 volts

7/ 1-5 volts

8/ Pulse input (6Hz to 5KHz)

851F/3/4/No of relays to be fitted (0-4 250 vac 1 amp resistive)

851F/3/4/4/Signal output (preceeded by I for isolated output)

1/ 0-1ma

2/ 0-10ma

3/ 0-20ma

4/ 4-20ma

851F/3/4/4/3/Panel or Wall mounted

P 96 X 96 DIN panel mounted

W 300 X 185 X 175 mm Wall mounted to IP 67

Panel mounted: 96 X 96 DIN by 161 mm deep, panel cut-out 92 X 92mm

