FLT601

FLOW RATE
INDICATOR / TOTALISER

6-digit Rate Indicator, 8-digit Totaliser

IP65, Gas groups I, IIA & IIB

- 6 digit flow rate indicator,
  8 digit flow totaliser
- User selectable inputs : 0~20 mA, 4~20 mA,
  0~5 volts, 1~5 volts, 0~10 volts
- Two batch relays, two flow alarm relays
- Programmable flow rate, setpoints and
  relay modes, etc.
- Application : Monitoring and controlling
  continuous as well as batch flow processes
- Isolated programmable 4~20 mA
  retransmission output
- RS485 / MODBUS
- Password protected programming and reset
- Programmable start, stop, reset functions

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SPECIFICATIONS

All specifications at ambient of 25 °C, unless specified otherwise

INPUT

Input	0~20 mA, 4~20 mA, 0~5 volts, 1~5 volts, 0~10 volts
Transmitter supply	22 V nominal, 30 mA max
Accuracy	0.1% of span typical, 0.2% of span maximum
Flow rate range	0.00001 to 999999 EU
Flow totaliser range	0 to 99999999
Memory	Non volatile, indefinite retention

INDICATION

Flow rate	Upper : 6 digit, 7 segment 0.56" (14.2 mm) red LED display
Totaliser	Lower : 8 digit, 7 segment 0.3" (7.62 mm) green LED display
Status indication	LEDs for relay status LEDs for flow rate unit LEDs for communication

VIEW MODE

Integrated totaliser	0 to 99999999
Roll over count of Integrated totaliser	10^6
Peak	Maximum flowrate after power on / reset
Valley	Minimum flowrate after power on / reset

OUTPUTS

No. of relays	0/2/4 relays for either flow rate or totaliser
Relay contact type	NO-C-NC
Relay contact rating	5A / 230V AC, resistive
No. of analog outputs	0 / 1 (current or voltage)
Current output	4~20 mA / 0~20 mA / 20~4 mA / 20~0 mA isolated from input
Maximum load for current output	500 ohms
Voltage output	0~10 V or user specified
Load for voltage output	>10 Kohms
Mutual isolation between input/output/supply	1KV AC RMS/1 minute, 250 V AC RMS continuous

COMMUNICATION

Port	RS485
Protocol	Modbus RTU
Slave ID	User programmable (1~256)

ENCLOSURE

Enclosure	Certified flameproof for gas groups I, IIA & IIB
Material	Aluminium alloy
Dimensions (in mm)	352(H) x 190(W) x 170(D)
Protection	IP65
Pushbuttons	4, for programming & viewing
Mounting	Wall mount
Cable entries*	5 x 3/4" ET

* Cable glands to be ordered separately

PROGRAMMABLE PARAMETERS

Input type	User selectable (DIP also to be set)
Input mode	Linear, Square root
Setpoints	Flow rate : 0 to 999999 Totaliser : 0 to 99999999
Resolution	Flow rate : 0.00001 to 1 Totaliser : 0.0000001 to 1
High scale for flow rate	0.1 to 999999
Low scale for flow rate	0 to 999999
Digital filter	Low, Mid, High
Time base unit	Second, minute, hour, day
Hysteresis for flow rate alarms	0.001 to 9999
Flow rate alarm logic	Full scale high, Full scale low, Deviation high, Deviation low, band in, band out
Flow rate alarm type	Self reset or latched, enabled/disabled at power on
Alarm acknowledge	Front panel function used to reset relay in alarm condition
Offset	0 to 9999
Relay logic for totaliser	Latched mode, Autoreset mode
Auto reset time	0.1 to 99.9 seconds
Setpoint lock	On, Off
Program lock	On, Off
Relay action	Reverse/Direct
Conversion factor	0.01 to 9999.99
Start, stop and reset functions	Programmable

OTHER

Supply voltage	a) 85~265 V AC, 50/60 Hz b) 20~35 V DC
Power consumption	4 watts maximum
Operating ambient temperature	0~50 °C
Relative humidity	Below 90%, non condensing

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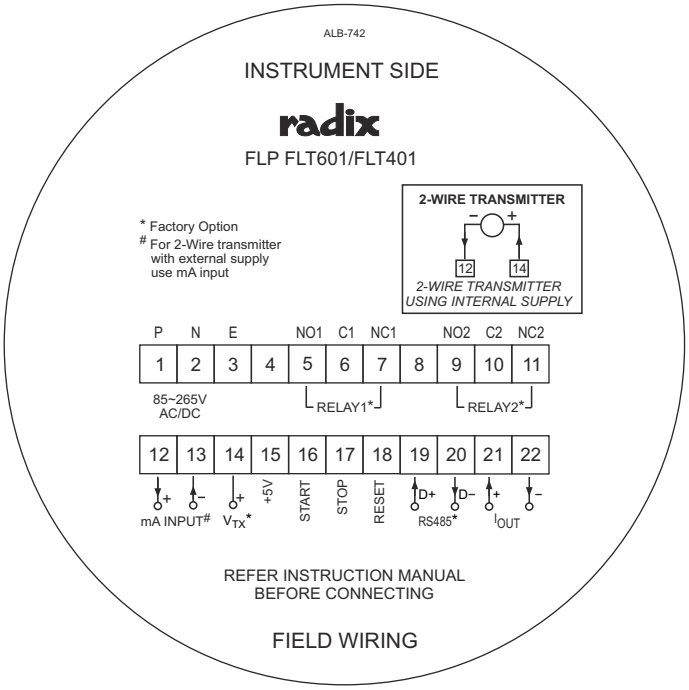
CONNECTION DIAGRAM



ORDERING INFORMATION

FLP FLT601 will be supplied with the following standard specifications :

Input type	4~20 mA

ORDER CODE	
2418	A

A	Output Configuration			
	Relay for flow rate	Relay for totaliser	4~20 mA output	RS485
00	0	0	0	0
01	0	2	0	0
02	2	2	0	0
03	2	2	1	0
04	2	2	0	1
05	2	2	1	1

Ordering Options
The following ordering options are available on request.
Minimum order quantity and/or minimum order value may apply.

	Option	Details
1.	Analog output	0~10 V DC
2.	Supply voltage	24 V DC

CAT#556R0/310316/A

ENQUIRIES
Instruments: sales@radix.co.in
Sensors: sensors@radix.co.in
Gauges: gauges@radix.co.in
Automation: automation@radix.co.in
Level: level@radix.co.in

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