

**4-digit Rate Indicator,
6-digit Totaliser**

4 Setpoints / Relays

Isolated 4~20 mA output

Isolated RS485/MODBUS RTU

- Inputs : 0 / 4~20 mA, 0~5, 1~5, 0~10 volts
- Four setpoints each assignable to either flow rate or totaliser
- Programmable flow rate, setpoints and relay modes, etc.
- Application : Monitoring and controlling continuous as well as batch flow processes
- Password protected programming and reset
- Programmable start, stop, reset functions

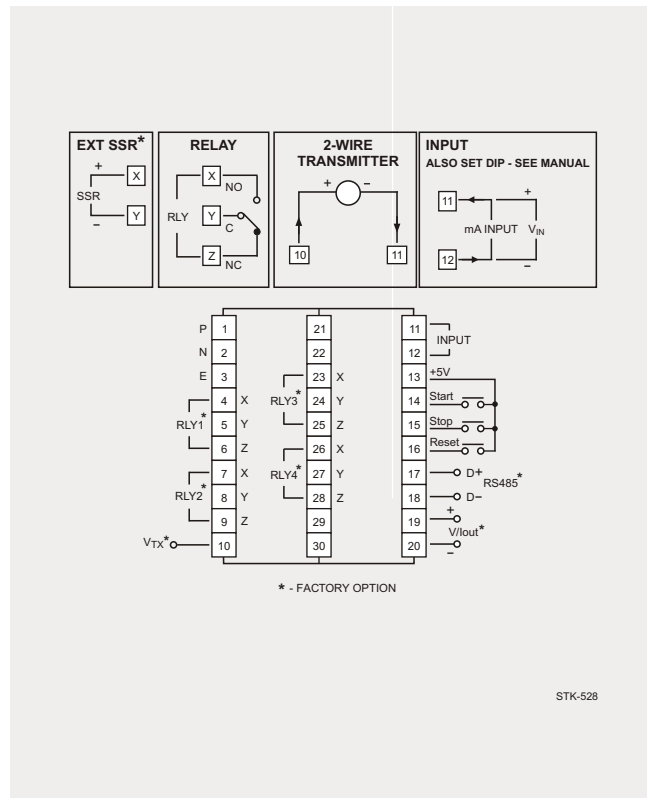


Specifications

Specifications & features are subject to change without notice. All specifications at ambient of 25 °C, unless specified otherwise.

INPUT		COMMUNICATION	
Input	0~20 mA, 4~20 mA, 0~5 volts, 1~5 volts, 0~10 volts	Port	RS485
Transmitter supply	22 V nominal, 30 mA max	Protocol	Modbus RTU
Accuracy	0.1% of span typical, 0.2% of span maximum	Slave ID	User programmable (1~256)
Flow rate range	0.001 to 9999 EU	PROGRAMMABLE PARAMETERS	
Flow totaliser range	0 to 999999	Input type	User selectable (DIP also to be set)
Memory	Non volatile, indefinite retention	Input mode	Linear, Square root
INDICATION		Setpoints	For flow rate : 0 to 9999 For totaliser : 0 to 999999
Flow rate	Upper : 4 digit, 7 segment 0.56" (14.2 mm) red LED display	Resolution	
Totaliser	Lower : 6 digit, 7 segment 0.3" (7.62 mm) green LED display	Flow rate	0.001 to 1
Status indication	LEDs for relay status LEDs for flow rate unit LEDs for communication	Totaliser	0.00001 to 1
VIEW MODE		High scale for flow rate	0.1 to 9999
Integrated totaliser	0 to 999999	Low scale for flow rate	0 to 9999
Roll over count of Integrated totaliser	10 ⁶	Digital filter	Low, Mid, High
Peak	Maximum flowrate after power on / reset	Time base unit	Second, minute, hour, day
Valley	Minimum flowrate after power on / reset	Hysteresis for flow rate alarms	0.001 to 9999
OUTPUTS		Flow rate alarm logic	Full scale high, Full scale low, Deviation high, Deviation low, band in, band out
No. of relays	0/2/4 relays for either flow rate or totaliser	Flow rate alarm type	Self reset or latched, enabled/disabled at power on
Relay contact type	NO-C-NC	Alarm acknowledge	Front panel function used to reset relay in alarm condition
Relay contact rating	5A / 230V AC, resistive	Offset	0 to 9999
No. of analog outputs	0 / 1 (current or voltage)	Relay logic for totaliser	Latched mode, Autoreset mode
Current output	4~20 mA / 0~20 mA / 20~4 mA / 20~0 mA isolated from input	Auto reset time	0.1 to 99.9 seconds
Maximum load for current output	500 ohms	Setpoint lock	On, Off
Voltage output	0~10 V or user specified	Program lock	On, Off
Load for voltage output	>10 Kohms	Relay action	Reverse/Direct
Mutual isolation between input/output/supply	1KV AC RMS/1 minute, 250 V AC RMS continuous	Conversion factor	0.01 to 9999.99
		Start, stop and reset functions	Programmable
		OTHER	
		Programming	Through 4 tactile keys
		Enclosure construction	Plug-in
		Dimensions (in mm)	96(H) x 96(W) x 100(D)
		Mounting	Panel mount
		Panel cutout	92 x 92 mm
		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

Connection Diagram



Ordering Information

FLT401 will be supplied with the following standard specifications :

Input type	4~20 mA
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ORDER CODE	
2417	A

A	Output Configuration	
	Relay for totaliser	4~20 mA output
00	0	0
01	2	0
02	2	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

Also Available : FLT601



- 6 digit flow rate indicator, 8 digit flow totaliser
- Inputs : 0~20 mA, 4~20 mA, 0~5 volts, 1~5 volts, 0~10 volts
- Four setpoints each assignable to either flow rate or totaliser
- 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
- RS 485 / MODBUS
- Password protected programming and reset
- Programmable start, stop, reset functions

RADIX ELECTROSYSTEMS PVT LTD
 EL-135/136/137, Electronics Zone
 TTC Indl. Area, MIDC, Mahape
 Navi Mumbai - 400 710, India
 + 91 22 42537777 | sales@radix.co.in

OTHER 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