

4-DIGIT RATE INDICATOR, 6-DIGIT TOTALISER



- 4 digit flow rate indicator, 6 digit flow totaliser
- Inputs : Analog inputs : 0~20 mA, 4~20 mA, 0~5 volts, 1~5 volts, 0~10 volts
Pulse input : 0~10 khz
Ac input : ± 50mV
- Four setpoints 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

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

INPUTS

Input	Analog inputs	0~20 mA, 4~20 mA, 0~5 volts, 1~5 volts, 0~10 volts
	Pulse input	0~10 khz
	Ac input	±50 mV (see ordering information)
Transmitter supply Accuracy		22 V nominal, 30 mA max 0.1% of span typical, 0.2% of span maximum
Flow rate range		0.001 to 9999 EU
Flow totaliser range		0 to 999999
Memory		Non volatile, indefinite retention

INDICATION

Flow rate	Upper : 4 digit, 7 segment 0.56" (14.2 mm) red LED display
Totaliser	Lower : 6 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 999999
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 relays for flow 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 500 ohms
Maximum load for current output	
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)

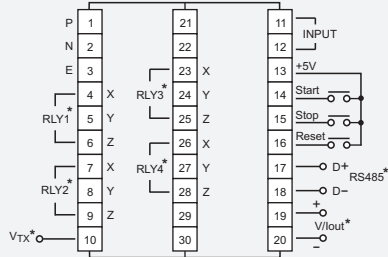
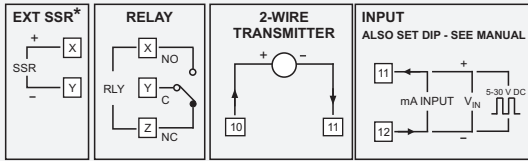
PROGRAMMABLE PARAMETERS

Input type	User selectable (DIP also to be set) Linear, Square root For flow rate (SP1, SP2) : 0 to 9999 For totaliser (SP3, SP4) : 0 to 999999
Input mode	
Setpoints	
Resolution	
Flow rate	0.001 to 1
Totaliser	0.00001 to 1
High scale for flow rate	0.1 to 9999
Low scale for flow rate	0.1 to 9999
Digital filter	A(minimum) ~ F(maximum)
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 0 to 9999
Offset (for SP3, SP4)	Latched mode, Autoreset mode 0.1 to 99.9 seconds
Relay logic for totaliser	On, Off
Auto reset time	On, Off
Setpoint lock	Reverse/Direct
Program lock	0.01 to 9999.99
Relay action	Programmable
Conversion factor	
Start, stop and reset functions	

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



* - FACTORY OPTION

STK-779

ORDERING INFORMATION

FLOTO46 will be supplied with the following standard specifications :

Input type	4~20 mA
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ORDER CODE

2211	A
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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 : FLOTO



- 6 digit flow rate indicator, 8 digit flow totaliser
- Inputs : Analog inputs : 0~20 mA, 4~20 mA, 0~5 volts, 1~5 volts, 0~10 volts
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