

10 DIGITAL MICRO-PROCESS TOTALIZER METER

with ALARMS / ANALOG OUTPUT / PULSE OUTPUT / RS-485

BTR

FEATURES

- Accuracy: $\pm 0.1\%$ F.S. ± 1 digit
- High brightness 0.4" LED; Rate of display range: 0~99999
- Rate / Total decimal point selectable
- Time unit selectable: sec / min / hour / day / month
- Baud rate up to 38400 bps
- Total scale programmable (0.0001~9.9999)
- Reset for Total by external control input
- Roof square function available for analog input
- Displacement function for environment monitor application
- 2 Alarms for Rate / 2 alarm for Total (Alarm 1 programmable) / Pulse Output / Analog Output (15 bit resolution) / RS-485 communication optional (The above options can exist together)
- High stability, non-flammable case (PC), high safety
- CE approval



ORDER INFORMATION: BTR - Code 1 - Code 2 Code 3 Code 4 Code 5

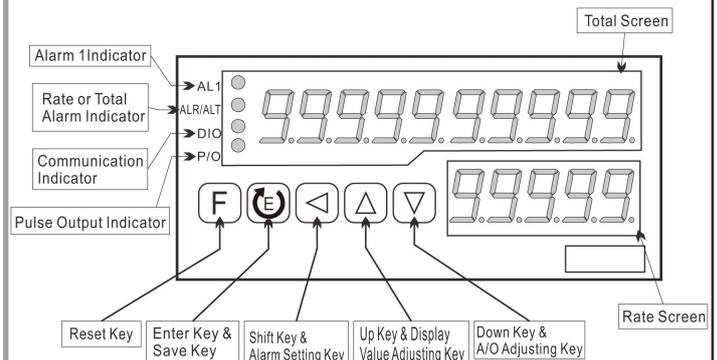
Code 1	Input Signal	Code 2	Pulse O/P	Code 3	Analog Output	Code 4	Comm. Interface	Code 5	Aux Power
A	4~20mA	0	None	0	None	0	None	0	None
V	1~5V	1	1 Relay	1	1~5V	1	RS232	1	DC 8V
P	0.05~5K Hz	2	2 Relay	2	4~20mA	2	RS422	2	DC 12V
R	Reed Switch	C	Crystal	3	1~10V	3	RS485	3	DC 24V

**1: 2 wire type offers excitation power DC24V for 2 wire (Loop Power) flow sensors using.
2: 3.4 wire type offers excitation power DC24V for 3, 4 wire (Loop Power) flow sensors using.

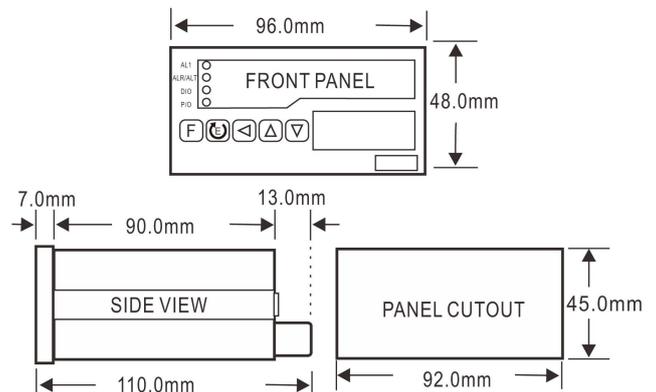
SPECIFICATION

- ◆ Accuracy: $\pm 0.1\%$ F.S. ± 1 digit
- ◆ Display Screen: High brightness red LED; 10.16mm(0.4")
- ◆ Sampling Time: 16 cycles / sec
- ◆ Display Range: Rate: 0~99999
Total: 0~9999999999
- ◆ Zero Adjustment: Rate: 0~99999
- ◆ Over Range Indication: doFL / ioFL or -doFL / -ioFL
- ◆ Polarity Indication: Automatic with "-" indication
- ◆ Parameters Setting: Push buttons
- ◆ Back Up Memory: EEPROM
- ◆ Alarm Action: Rate: " \geq (Hi) on" or "< (Lo) on"
Total: " \geq (Hi) on"
- ◆ Alarm Run Delay Time: 0~99 sec
- ◆ Relay Contact: AC 277V / 7A; DC 30V / 7A
- ◆ Analog Output Resolution: 15 bit
- ◆ Output Response Time: <250 msec (0~90%)
- ◆ Output Communication: Voltage Output: <20mA
Current Output: <10V
- ◆ Communication: RS-485 Modbus RTU mode
- ◆ Baud Rate: 38400 / 19200 / 9600 / 4800 bps
- ◆ Temperature Coefficient: 100ppm / $^{\circ}\text{C}$ (0~60 $^{\circ}\text{C}$)
- ◆ Operating Temperature: 0~60 $^{\circ}\text{C}$
- ◆ Operating Humidity: 20~90% RH (non-condensing)
- ◆ Storage Temperature: -10~70 $^{\circ}\text{C}$
- ◆ Storage Humidity: 20~90% RH (non-condensing)
- ◆ Power Supply: AC/DC 100~240V; AC/DC 22~60V
- ◆ Power Consumption: 8.5VA (all functions output)
- ◆ Surge Test: 1.5kVac / 1min (Input / Power)
- ◆ Input Impedence: Voltage: >2V for 20K Ω / V; $\leq 2\text{V}$ for >200M Ω
Current: $\geq 0.2\text{A}$ at 100mV; <0.2A at 1V

FRONT PANEL & KEY FUNCTIONS



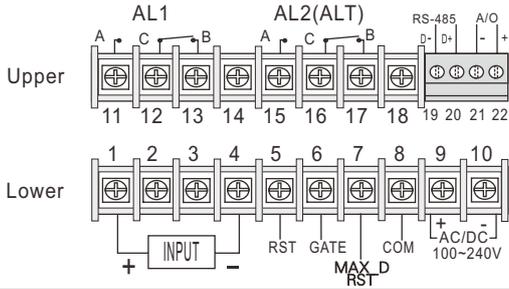
DIMENSION



WIRING CONNECTION

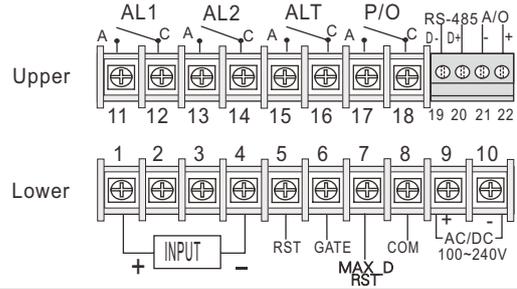
2 Alarms for Rate

● Voltage, Current (DC)

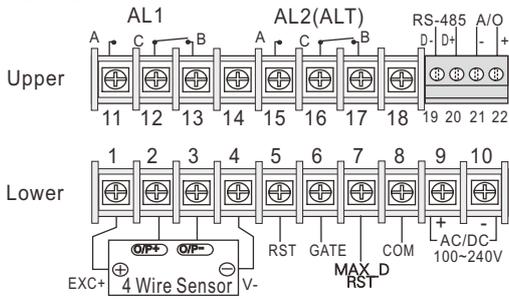


2 Alarms for Rate / 1 Alarm for Total / Pulse Output for Total

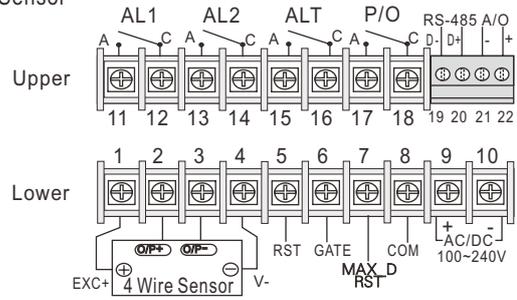
● Voltage, Current (DC)



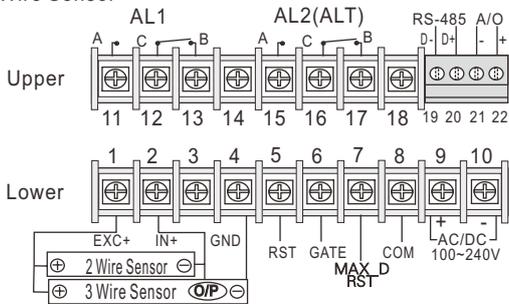
● 4 Wire Sensor



● 4 Wire Sensor



● 2,3 Wire Sensor



● 2,3 Wire Sensor

