

LRT/LDT Battery Powered Ratemeter & Totalizer



Mounting Style 0
No Case , Panel Mount



Mounting Style 1
Normal Housing



Mounting Style 2
Explosion Proof Housing



Mounting Style 1 + OutPut
Normal Housing

Features

- ⊙ Supports many different input methods from flowmeter.
- ⊙ High refresh rate, durable LCD screen .
- ⊙ Many different signal output modes, easy to communicate with PLC, PC, and other industrial equipment.
- ⊙ No communicator required, intuitive settings directly through buttons.
- ⊙ When the battery is low, the parameters and accumulation are automatically stored.
- ⊙ Advanced filtering technology and top signal processing can get the most accurate data.
- ⊙ Many convenient function: Power saving, Screen contrast adjustment, Parameter lock

DISPLAY	LCD - 5 Digit Rate Display (or 5 Digit Resettable Totalizer) , 8 Digit Totalizer Display
BATTERY	TADIRAN original TL2300 disposable special industrial lithium battery.
INPUT	Magnetic Pickups, Contact Closures, DC Pulses, Coil(Optional), 4-20mA(Optional)
OUTPUT	Pulse 、 4-20mA(Optional) 、 RS485(Optional)
FUNCTION	Power saving, Screen contrast adjustment, Parameter lock
FILTERING	Mean, Time interval, Median, Environmental noise reduction (Optional).
TEMPERATURE	-10 oC ~ 60 oC
EXTERNAL POWER	DC12V Supply or 4-20mA Loop Power
CERTIFICATION	Explosion Proof-Class I , Division I , Group B,C&D(Optional)

● DISPLAY :

- **Rate Display** : 〈selectable decimal〉
5 Digits 〈99999〉, 0.35" High Display updates once every two seconds.
Rate Descriptors : /SEC, /MIN, /HR
- **Totalizer Display** : 〈selectable decimal〉
8 Digits 〈99999999〉, 0.2" High
Totalizer Descriptors : GAL, LIT, FT3, M3
- **Min. Input Frequency** : 0.25 Hz to 1 Hz 〈selectable delay of 0.1 to 8.0 seconds〉
- **Warning Displays** : Low battery warning

● INPUTS :

- | | |
|---|---|
| • MAGNETIC PICKUP INPUT
Frequency Range : 0 to 1K Hz
Trigger Sensitivity : 30mV p-p
Over Voltage Protected : $\pm 30V$ DC | • CONTACT CLOSURE INPUT
〈contact closure to common〉
Internal Pullup Resistor : $100K\Omega$ to +3.0V DC
High 〈logic 1〉 : Open or 2 - 5V DC
Low 〈logic 0〉 : Less Than 0.5V DC |
|---|---|

※CAUTION : Sustained contact closure will shorten battery life.

● OUTPUT :

- **ANALOG OUTPUT** :
Type : 4-20mA follows rate display, Two wire hookup
Accuracy : 0.15% Full Scale at 25°C
Temperature Drift :
 50 ppm/°C Typical
 200 ppm/°C Worst Case
Reverse Polarity Protected

※NOTE :

Using the 4-20mA loop power as it's power source when this option is used.

- **PULSE OUTPUT** :
The pulse output advances with the least significant digit of the totalizer.
Type : Opto-isolated open collector transistor.
Max. voltage 〈off state〉 : 30V DC
Current 〈on state〉 : 5mA @ 1.4V drop,
 0.1mA @ 1.0V drop.
Pulse Duration : 32 msec
Pulse Output Rate : 15Hz max.
Pulse output divider : User selectable
- ※NOTE : Select OFF for max. battery life.

● **Specifications**

• **POWER :**

• **BATTERY POWERED :** Supplied with D size Lithium battery pack.

• **EXTERNAL POWER INPUT :**

Voltage : 12V DC Current : Less than 5mA @ 12V DC

• **4-20mA LOOP POWERED**

Voltage : 24V DC Supplied with 1 D size lithium battery

• **ACCURACY :** 0.01% Reading, ±1 count

• **ENVIRONMENTAL :**

• **OPERATING TEMPERATURE :** -4oF < -20oC > to +158oF < 70oC >

Extended Temp : -22oF < -30oC > to +158oF < 70oC >

• **HUMIDITY :** 0 - 90% Noncondensing

● **Model NO. Table**

BNC	Basic Function	Battery	Input	Output	Mounting	Description
BNC						
	-LRT					8 digit Totalizer and 5 digit Flow rate
	-LDT					8 Digit Totalizer and 5 Digit Resettable Totalizer
		-B				With Battery (TADIRAN TL2300)
		-N				No Battery
			0			Normal(Magnetic Pickups, Contact Closures, DC Pulses)
			1			Coil Input
			2			4-20mA Input
			+3			Environmental noise reduction
				0		No Output
				1		Pulse output only
				2		4-20mA output
				3		4-20mA+Pulse output
				4		RS485 Output
				5		RS485 + Pulse Output
				6		Other Option
					-0	No Case , Panel Mount
					-1	Normal Housing
					-2	Explosion Proof Housing(Class I , Division I , Group B,C&D)
					-3	Other Option