

## Multifunction Indicator

The IN-P is a **Multifunction Indicator** which not only interfaces smoothly with a wide range of PLC and monitoring systems, but also as a stand alone unit for single and multi input Indication - Alarm - Control.

### Features:

- ◆ Simple setup and calibration.
- ◆ On Screen Step by Step Instructions.
- ◆ 5 Buttons for easy Operator Interface.
- ◆ Option to add up to 6 Relay Outputs.
- ◆ Analogue Output Retransmission option.
- ◆ Serial RS485/RS232 port option with Modbus RTU.  
Ethernet port option with Modbus TCP.
- ◆ Wide Range of Power Supply options from 10V to 265V.
- ◆ Multiple functions available for customising to your application.



IN-P

[www.intech.co.nz/in-p](http://www.intech.co.nz/in-p)

MODEL	DESCRIPTION	PRICE
IN-P	<b>Multifunction Indicator.</b> 6 Digit LED Display. 6 Set Points. Standard Power Supply: 85~265Vac / 95~370Vdc.	
PRC1	1x 4~20mA / 0~10V input + 24Vdc excitation	\$420.00
PRC4	4x 4~20mA input + 24Vdc excitation.	\$668.00
TC1	1x Thermocouple input: Types B, J, K, N, R, S, T.	\$420.00
TC4	4x Thermocouple input: Types B, J, K, N, R, S, T.	\$668.00
RTD1	1x RTD Pt100 input.	\$420.00
RTD4	4x RTD Pt100 input.	\$668.00
<b>OPTIONS</b>		
R2	2x 5A Relay Outputs.	\$78.00
R4	4x 5A Relay Outputs.	\$105.00
R6	6x 5A Relay Outputs.	\$155.00
A	Analogue Output Retransmission: 4~20mA and 0~10V.	\$95.00
WS232	Serial Port RS232: Includes Modbus RTU.	\$116.00
WS485	Serial Port RS485: Includes Modbus RTU.	\$116.00
WEM/WEA	Ethernet Port: Ascii or Modbus TCP.	\$281.00
LV	Low Voltage Power Supply: 15~48Vac / 10~72Vdc.	\$64.00
<b>FUNCTIONS (Available on request)</b>		
A	Auto or manual scanner with alarms.	POA
B	Maths functions, (i) $\sqrt{\quad}$ , (ii) Difference, (iii) Average, (iv) Hi / Lo Select.	POA
C*	Hold, Tare, Reset (External switches connect to rear terminals).	POA
D*	Flow Rate + Totalising.	POA
E*	Energy display & totaliser (flow x $\Delta T$ ).	POA
F	Step controller.	POA
G*	Auto / Manual Station.	POA
H	Retransmission.	POA
I	Other Functions – please specify.	POA
J	Data Logging.	POA

\* Available on channel one only.

**Common Features:**

- ◆ Simple setup and calibration.
- ◆ On Screen Step by Step Instructions.
- ◆ 5 Buttons for easy Operator Interface.
- ◆ Option to add up to 4 Relay Outputs.
- ◆ Analogue Output Retransmission option.
- ◆ Serial RS485/RS232 port option with Modbus RTU (excluding IN-R).
- ◆ Wide Range of Power Supply options from 10V to 265V.



IN-R

[www.intech.co.nz/in-r](http://www.intech.co.nz/in-r)



IN-RT

[www.intech.co.nz/in-rt](http://www.intech.co.nz/in-rt)



IN-RTB

[www.intech.co.nz/in-rtb](http://www.intech.co.nz/in-rtb)

MODEL	DESCRIPTION	PRICE
<b>IN-R</b>	<b>Large Display Tachometer Indicator.</b> 4 Digit Large LED Display. Microprocessor Based for Wide Range Calibration. Inputs: 0~30V, magnetic pickup, NPN, PNP, TTL, Namur. 4 Set Points with delay. 4 LED's for Alarm indication. Standard Power Supply: 85~265Vac / 95~370Vdc.	\$336.00
<b>IN-RT</b>	<b>Flow Rate Indicator with Totaliser.</b> 6 Digit LED Display. Inputs: 0~30V, magnetic pickup, NPN, PNP, TTL, Namur. 4 Set Points with delay. Standard Power Supply: 85~265Vac / 95~370Vdc.	\$425.00
<b>IN-RTB</b>	<b>Flow Rate and Batching Controller.</b> Dual 6 Digit LED Displays. View Flow Rate & total simultaneously. Inputs: 0~30V, magnetic pickup, NPN, PNP, TTL, Namur. 5 Set Points annunciator LED's. Standard Power Supply: 85~265Vac / 95~370Vdc.	\$530.00
<b>OPTIONS</b>		
<b>R2</b>	<b>2x 5A Relay Outputs.</b>	\$78.00
<b>R4</b>	<b>4x 5A Relay Outputs.</b>	\$105.00
<b>A</b>	<b>Analogue Output Retransmission: 4~20mA and 0~10V.</b>	\$95.00
<b>WS232</b>	<b>Serial Port RS232:</b> Includes Modbus RTU. Note: Not available for the <b>IN-R</b> .	\$116.00
<b>WS485</b>	<b>Serial Port RS485:</b> Includes Modbus RTU. Note: Not available for the <b>IN-R</b> .	\$116.00
<b>LV</b>	<b>Low Voltage Power Supply: 15~48Vac / 10~72Vdc.</b>	\$64.00

**LPI-LCD-5**

**Panel Mount Indicator. Loop powered.**

MODEL	DESCRIPTION	PRICE
<b>LPI-LCD-5</b>	<b>Panel mount. Loop powered.</b> Input: 4~20mA, 2 wire. Display: 5-digit LCD of 12.5mm height. Volts Drop: 3.9V @ 20mA. Scaling: Programmable between -19999 to 30000. Max Resolution: 50,000 counts. Accuracy: +/-0.02% of reading plus 2 digits. Decimal Point: Programmable to six positions. Temperature: -10°C to +50°C. Protection: IP65. Housing: Plastic. 96 x 48mm.	\$348.00
<b>Cover</b>	Option: Splash proof lockable security cover: IP65.	\$72.00



[www.intech.co.nz/lpi-lcd](http://www.intech.co.nz/lpi-lcd)

## Battery totaliser

### Features:

- ◆ Self powered, 8 digit LCD cumulative totaliser and large 5 digit resettable total.
- ◆ Robust field mountable housing with protection cover as standard.
- ◆ Simple flow chart touch key programming.
- ◆ Scaleable universal pulse inputs.
- ◆ PIN protected programming.
- ◆ IP66 Weatherproof (*NEMA 4X*).
- ◆ Intrinsically safe design.
- ◆ Pre-amplified pulse output.
- ◆ Long battery life.
- ◆ Reverse polarity protection.

## TRIMEC BT SERIES

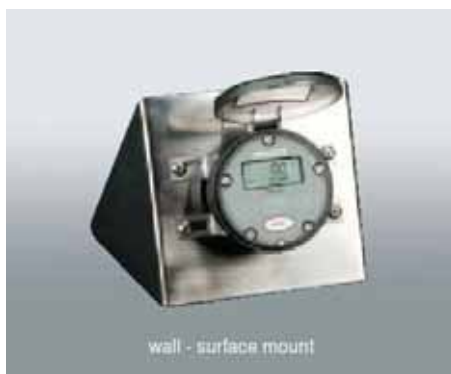
### Battery Totaliser.



**Display:** Alpha numeric LCD characters.  
**Resettable total:** 5 digit x 7.5mm high, programmable to 3 decimal places.  
**Accumulated total:** 8 digit x 3.6mm high, programmable to 3 decimal places.  
**Engineering units:** litres, Mlitres, gallons, Mgallons.  
**displayed:** m3, lbs, kgs or no engineering units displayed.  
**Input types:** reed switch, open collector, coil (*15mV P~P min.*), namur & other proximities.  
**Max. input frequencies:** coil 5Khz, hall 2.5Khz, namur 250hz.  
**Pulse Outputs:** NPN/PNP selectable, non-scaleable (*5Khz max.*) or scaleable (*50hz max.*), auto-ranging pulse width : 1000 / (hz x 2) = milliseconds, 300m/sec. max.  
**Enclosure:** Glass reinforced nylon, IP66 (*NEMA 4X*).  
**Power source:** 1 x 3.6V lithium battery, can last to 10 yrs.  
**External powering:** 8~24Vdc (*drives scaleable pulse output*).  
**Options (require 8~24Vdc):** scaleable pulse output, LCD backlighting.  
**Temperature:** -10~60°C.

MODEL	DESCRIPTION	PRICE
<b>BT11</b>	<b>Battery Totaliser.</b> Dual totaliser with scaleable pulse output.	\$565.00
<b>Options</b>	Include a range of mounting kits.	POA

BT Series Battery Totaliser Display Screens:



**TRIMEC RT100 SERIES**

**Flow rate totaliser.**



**Scaleable Pulse Output**

A selectable NPN or PNP transistor output with variable pulse width is provided to ensure compatibility with commonly used PLC inputs, counters and metering pumps. The default width of 300ms (frequency permitting) enables most PLC's to successfully scan the incoming pulses with standard input circuits, avoiding the need for, and additional cost of high speed counter inputs.

**Loop powered 4~20mA output**

An optional high resolution analogue output enables transmission of the instantaneous flowrate. The output reflects any linearisation that may be programmed.

**Flow Alarm Outputs**

Optional NPN or PNP selectable low and high flowrate alarms have independently adjustable deadbands to provide application flexibility and enable connection to commonly used devices.

Display:	8 digit alphanumeric, 9mm character height displays: * 8 digit total (resettable). * 8 digit accumulated total. * 5 digit instantaneous flow rate. * programming prompts and messages.
Input:	Pulse/frequency. Reed switch, open collector, Namur and sine wave with 20mV min P-P voltage (typical of turbine coils). Dual inputs, A+B, A-B or A÷B. 4~20mA analogue input.
Input Hz range:	0~5kHz. (rate display min 0.25Hz).
K-factor range:	0.001~999999.999. (floating decimal point during K-factor entry).
Rate time base:	Selectable as units per second, minute, hour or day.
Power supply:	* Self powered by lithium batteries. * External via reg. 8~24Vdc. * Optionally via the 4~20mA output loop.
Pulse output:	Scaleable NPN/PNP selectable, transistor. 100mA resistive load. Auto ranging pulse width with 1:1 ratio, defaulting to a min of 300ms.
Alarm output:	Two NPN/PNP selectable, transistor outputs, low and high flow alarms with adjustable deadband, 100mA resistive load.
Analogue output:	4~20mA 2 wire loop powered. 12~24Vdc. (750 ohms @ 24Vdc).
Enclosure:	Powder coated aluminium, IP67.
Temperature:	-20~80°C.

MODEL	DESCRIPTION	PRICE
RT-FM	<b>Universal flow rate totaliser. Field Mount.</b> Pulse/frequency input. 2 wire 4~20mA loop powered, flow alarms and dual input.	\$1305.00
RT-PM	<b>Universal flow rate totaliser. Panel Mount.</b> Pulse/frequency input. Panel mount AC or DC supply c/w 2 SPDT SA relays.	\$1795.00

**Overview**

The RT100 flowrate totaliser has been specifically designed to operate with common pulse producing flowmeters such as positive displacement, turbine and paddle-wheel sensors, without the need for external power. All data is retained in the event of power loss or battery removal. Ultra low power consumption provides many years of service from replaceable lithium batteries. External power may be applied to interface with common controllers such as PLC's via the scaleable pulse output and/or optional analogue output. Multipoint linearity correction of the flowmeter input is available to enhance accuracy and extend flow sensor rangeability. Flexibility of wall or pipe mounting via optional stainless steel brackets. Direct on meter and panel mounting versions are available.



**Simple Programming**

Simple flow chart programming with English prompts enables the user to configure the RT100 with ease. Once in program mode the scrolling prompts guide you through the entire programming routine greatly reducing the need to refer to the manual. The RT100 is fully user programmable and has selectable PIN protection for security.



[www.trumeter.com/7111](http://www.trumeter.com/7111)

### Trumeter

#### Model 7111 and Model 7111 HV Self-powered totalising counters.

Display:	8 digit LCD.	
Power supply:	Battery powered.	
Reset:	Manual or remote.	
Protection:	Front panel IP65.	
Size:	24 x 48 mm.	
MODEL	DESCRIPTION	PRICE
7111	<b>Model 7111 Self-powered totalising counter. Bi-directional: count up.</b> Low speed count input: Contact/open collector. 30Hz max. High speed count input: Electronic. 10kHz max.	\$80.00
7111 HV	<b>Model 7111 HV Self-powered totalising counter. Bi-directional: add/subtract.</b> Direction input: Connection or electronic. High speed count input: Electronic. 10kHz max. High voltage input trigger: 10~240Vac / 5~110Vdc.	\$113.00
OPTION		
7111 QUAD	<b>Model 7111 QUAD Quadrature signal compatible.</b> Converts the signal from a quadrature output sensor such as a shaft encoder into count and direction signals. No count loss or gain in forward or reverse motion.	\$120.00



[www.trumeter.com/7511](http://www.trumeter.com/7511)

### Trumeter

#### Model 7511 and Model 7511 HV Self-powered hours run and totalising timers.

Display:	8 digit LCD.	
Power supply:	Battery powered.	
Control:	Remote start/stop control of timing by contact closure.	
Reset:	Remote reset by contact closure. Front panel reset enable/disable by link.	
Protection:	Front panel IP65.	
Size:	24 x 48 mm.	
MODEL	DESCRIPTION	PRICE
7511	<b>Model 7511 Hours run / totalising counter.</b> 4 timing modes: Seconds, Minutes & Seconds, Hours 1/100ths or Hours & Minutes. Times up or down. Standard plug in connector with colour coded flying leads.	\$80.00
7511 HV	<b>Model 7511 HV</b> High voltage input: 10~240Vac / 5~110Vdc.	\$113.00



[www.intech.co.nz/7922](http://www.intech.co.nz/7922)

### Trumeter

#### Model 7922 – Programmable predetermining counter. (Replaces Model 7921).

User programmable to operate as a predetermining up/down counter.		
Display:	2 rows of 6 digit LCD with backlighting.	
Power supply:	85~265Vac, 10~26Vdc. Sensor power: 12Vdc $\pm$ 10% @ 100mA (when operating from AC supply).	
Protection:	Front panel IP65. Size: 48 x 48 mm.	
Prescaler:	Mult, 0.00001~9.99999. Divide, 1~99999.	
Reset:	Manual or remote.	
MODEL	DESCRIPTION	PRICE
7922	<b>Model 7922 – Programmable predetermining counter.</b> 2 presets or 1 preset and batch. Bi-directional, up/down counter with prescaler. Input: NPN or PNP, Quadrature and uni-directional. Selectable rates for input A and B, 10kHz max. Output: 2 Relays, 5A 260Vac / 30Vdc. Programmable for pulsed or latched, n/o or n/c.	\$365.00

**Trumeter****Model 9100 – Multi-function counter/ratemeter.**

Simultaneously maintains any of the following:

**Count preset, Count pre-warn, Batch preset, Over-speed, Under-speed condition.**

And displays:

**Count, Total and Speed.**

Counts in any of 7 modes: A-B, A+B, A/B, count and direction and quadrature x1, x2 & x4. Counting continues while rate measurement is in progress.

3 line supertwist LCD backlit display viewable from any angle.

CAN bus/Device net interface as an option.

Power supply: 85~260Vac. Sensor power: 12Vdc, 100mA.  
 Protection: Front panel IP65. Size: 72 x 72 mm.  
 Rate input: 8~30Vdc. max. 10kHz. min 0.078Hz. (1 pulse per 12.8sec).  
 Rate mult: 0.00250~9.99999.  
 Prescaler: Mult, 0.00250~9.99999. Divide, 1~99999.  
 Reset: Manual, remote and automatic.  
 Control inputs: External reset, count inhibit, keyboard disable.  
 Output: 3 relays, programmable for pulsed, latched or disable.  
 SPST, 5A 260Vac.



[www.trumeter.com/9100](http://www.trumeter.com/9100)

MODEL	DESCRIPTION	PRICE
9100	Model 9100 – Multi-function counter/ratemeter. Multi-preset.	\$530.00

**Trumeter****Model 7932 – Programmable predetermining counter/timer.**

User programmable to operate as a preset up/down timer.

Display: 2 rows of 6 digit LCD with backlighting.  
 Power supply: 85~260Vac, 10~30Vdc.  
 Sensor power: 12Vdc 100mA.  
 Timing ranges: (a) 0.01 seconds, (b) seconds, (c) minutes,  
 (d) hours and hundredths, (e) hours and minutes.  
 Count range: 0~999999.  
 Input: 12~240V.  
 Reset: Manual, automatic or 12~240V.  
 Protection: Front panel IP65.  
 Size: 48 x 48 mm.  
 Output: Relay, SPDT, 5A 260Vac. 150W 30Vdc.

MODEL	DESCRIPTION	PRICE
7932	Model 7932 – Programmable predetermining counter/timer. Single preset.	\$325.00



[www.intech.co.nz/7932](http://www.intech.co.nz/7932)

**Kubler****CODIX 52U – Electronic Totaliser / Ratemeter.**

Multiplication and division factor (0.0001 to 99.9999).

Programmable decimal point between 0.0 and 0.000.

Programmable delay until 0 is displayed.

Display in 1/min or 1/sec.

Display: 6-digit 7-segment red LED display: figures 8 mm high.  
 Power supply: 10~30Vdc supply, max. 50 mA.  
 Data retention: EEPROM.  
 Housing: Dimensions 48 x 24 mm, IP65.  
 Programmable: npn or pnp inputs.  
 Input resistance: approx. 5 kW.  
 Count frequency: 30Hz to 60kHz max.

MODEL	DESCRIPTION	PRICE
Codix 52U	Codix 52U – Electronic Totaliser / Ratemeter. Standard plug in connector with colour coded flying leads.	\$290.00



[www.intech.co.nz/codix52u](http://www.intech.co.nz/codix52u)