Process Indicators - IN Series IN-P - Multifunction Process Indicator www.intech.co.nz/in-p Multiple Input Types.

- 6 Digit LED Display.
- 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-R - Tachometer with relay outputs

www.intech.co.nz/in-r

Large 4 Digit 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.
- Analogue Output Retransmission option.
- Simple setup and calibration.
- On Screen Step by Step Instructions.
- 5 Buttons for easy Operator Interface.
- Wide Range of Power Supply options from 10V to 265V.

IN-RT - Flow Rate Indicator with Totaliser and relay outputs

Features

www.intech.co.nz/in-rt

- 6 Digit LED Display.
- Inputs: 0~30V, magnetic pickup, NPN, PNP, TTL, Namur.
- 4 Set Points with delay.
- Analogue Output Retransmission option.
- Serial RS485/RS232 port option with Modbus RTU.

· Simple setup and calibration.

F1

- On Screen Step by Step Instructions.
- 5 Buttons for easy Operator Interface.
- · Wide Range of Power Supply options from 10V to 265V.



IN-RTB - Flow Rate and Batching Controller with relay outputs



www.intech.co.nz/in-rtb

Features

Features

- 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.
- Analogue Output Retransmission option.
- Serial RS485/RS232 port option with Modbus RTU.
- Simple setup and calibration.
- On Screen Step by Step Instructions.
- 5 Buttons for easy Operator Interface.
- Wide Range of Power Supply options from 10V to 265V.

Ordering codes and specifications

IN-P - Multifunction Process Indicator



www.intech.co.nz/in-p

	Ordering Information —	ITEMS		CODE						DESCRIPTION		
		SERIES IN-P-					Multifunction Process Indicator					
				PRC1-	PBC1-					1 x ~20mA input + 24Vdc excitation		
				PRC4-						$4 \times 4 \sim 20$ mA input + 24//dc excitation		
				11101						1 x Thermore		
			TC1-	TC1-					Types B. J. K. N. R. S. T.			
		INPUTS	TC4-	C4-					4 x Thermoo	couple Input		
			PTD1-	TD1						100 input		
		KID4-	N					Nono				
		RELAY		R2-					4 x 5A relay outputs			
				R4-								
			R6-					6 x 5A relay outputs				
	ANALOGUE				N-							
		I / RETRANS	MISSION		A-			2 x 4~20mA	analogue output			
							N-			None		
		COMML				WS232-			1 x serial po	ort Isolated RS232		
						WS485-			1 x serial po	ort Isolated RS485		
						WE-			With an Ethe	ernet port Ascii or Modbus		
		POWER					HV-		85~265Vac	/ 95~370Vdc		
		1 01121					LV-		15~48Vac /	10~72Vdc		
		SELECT	FUNCTION						- 🗆	As per below	W:	
	◆ Specifications →	B Auto or manual scanner with alarms C Maths functions, (i) √, (ii) Difference, (iii) Average, (iv) Hi / Lo Select D* Hold, Tare, Reset (External switches connect to rear terminals) E* Flow Rate + Totalising F* Energy display & totaliser (flow x ΔT) G Step controller H* Auto / Manual Station I Retransmission J Other Functions – please specify K Data Logging * Available on channel one only. Ordering Example: IN-P-RTD4-R2-N-WS485-HV-K Multifunction Process Indicator; 4 x RTD Pt100 Inputs ; 2 x relay outputs; 1 x serial po RS485; 85~265Vac / 95~370Vdc Power Supply; Data Logging.								x relay outputs; 1 x serial port gging.		
		Samplir	ng rate	10Hz	10Hz							
		Resolut	ion	16-bi	16-bit							
		Accuracy		0.05	0.05% of reading.							
Temperature drift Typi						Typically 50ppm/°C						
	Calibration Factory pre-calibrated - autor							d - automatic or manual user calibration available				
		Securit	/	Setu	o is PIN	code	protected					
		Case 48 x 96 x 119.5mm (H x W x D) / 45.5 x 92. OPTIONAL Relay outputs 2, 4 or 6 x 5A Form A relays							x 92.5m	mm panel cutout		
									n A relays			
		Analogue output Analogue output Isolated 16-bit 4~20mA/0~10V output (fully range within the full-scale range of the indic								aleable). Windo or	w programmable over any	
	Serial port Isolated RS485/RS232. Modes: /							lodes: ASCII, Modbus RTU slave, Ranger A.				
		JUMPER	SELECTABLE	OPTIONS								
		Input range jumper 20mA, Custom, 2V, 10V.										

Ordering codes and specifications											
IN-R - Tachometer with relay outputs											
Ordering Information	ITEMS	COL	DE		DESCRIPTION	And a state of the					
		SERIES IN-R				Large display Tachometer Indicator					
			N-			None					
			2-			2 x 5A relay outputs					
	RELAT OUTPUT	4-			4 x 5A relay outputs	1777-1777 JULA					
		6-			6 x 5A relay outputs						
	ANALOG OUTPU	т	N-		None						
			A-			1x analog output					
		POWER SUPPLY	ſ			85~265Vac / 95~370Vac					
					LV	15 40 Vac / 10 42 Vac	www.intech.co.nz/in-r				
Specifications	Easy setu	ip	Scrolling	text pro	mpts f	or intuitive, easy setup					
	Security		Calibratio	alibration and set-point functions have independent security code access direct access to set-point activation values is independently configurable)							
	Input sign	al	0~24Vdc	-24Vdc or 0~30Vac.							
			Selectabl	e senso	r type:	ogic (Open collector (NPN/PNP), Namur, TTL) or magnetic pickup (Tacho).					
	Pulses pe	r revolution	User sele	ectable f	rom 1	to 9999 pulses per revolution					
	Display re	nent range	1~99990	100M (1)	opr sei	nsor) to 0.1~99990RPM (10ppr sensor)					
	Input nois	e filtering	Selectabl	e low pa	ass filte	er options: Off. 200Hz, 2kHz or 20kHz					
	Power su	pply	HV: 85~2	65Vac	95~3	70Vdc or LV: 15~48Vac / 10~72Vdc					
	Sampling	rate	Nominally	y 3Hz (lo							
	Accuracy		0.1RPM								
	Temperat	ure drift	Typically	30ppm/	°C d						
	Relay out	nuts	4 program	nmable	u relav o	outputs with hysteresis and delay on make					
	ators	4x LED a	nnuncia	itors fo	or alarms and relay status indication						
	Case		48mm x 9	96mm x	119.5	mm (H x W x D) / 45.5mm x 92.5mm panel c	utout				
IN-RT	- Elo	w Rate In	dica	tor	wii	h Totaliser and rela	av outputs				
Ordering Information	tion –		CODE			Elow Pata Indicator + Totalisor					
		SERIES IN-RI-	N-			None	ALL THERE A				
			TS 4-			2 x 5A relay outputs					
		RELAY OUTPUTS				4 x 5A relay outputs					
			6-			6 x 5A relay outputs	IN-RT.				
		ANALOG OUTPU	T N	-		None	Intech INSTRUMENTALIS				
			A	-	1	1x analog output	AP1 5P2 3P3 5P4 5P3 5P4				
		SERIAL PORT		N-		None					
					нv	85~265\/ac / 95~370\/dc					
		POWER SUPPLY			IV	15~48Vac / 10~72Vdc	www.intech.co.nz/in-rt				
Charlfingtions	Input		0~24\/da	0~301/	ac		, , , , , , , , , , , , , , , , ,				
- specifications	Sensor tv	pes	0~24vuc, 0~30vac NPN_PNP_Mag (20mV to 30V)_TTL_digital_closed contact or NAMUR								
	K factor ra	anges	3 ranges for K factors, from 0.1 to 99.9999, 999.999 or 9999.99								
	Frequenc	у	2Hz to 10								
	Power su	pply	HV: 85~2	65Vac	95~3	70Vdc or LV: 15~48Vac / 10~72Vdc					
	Accuracy	1	24V DC (50mA n	nax)						
	Temp drif	t	Tvpically	2ppm/°	С						
		L/sec, L/min or L/hour									
	lution	1ml, 10ml, 0.1L or 1L									
	resolution	x0.1, x1, x10, x100 or cubic meters									
	reset	Reset totalisers via front panel or rear pins.									
	features	Both totalisers can be individually programmed for low flow cutoff and rollover									
		Setup PIN code protected for security									
		48mm x 96mm x 119.5mm (H x W x D) / 45.5mm x 92.5mm panel cutout									
	AL.	Isolated 16-bit 4~20mA / 0~10V output (fully scalable).									
		Window programmable over any range within the full-scale range of the controller Isolated RS485/RS232. <u>Modes</u> : ASCII, Modbus RTU slave, Ranger A.									
		Data rates: 300~38400 baud. Parity: Odd, even or none.									
	puts	4 x 5A Form A relays									
	JUNPER	SELECIABLE OPTI e filter jumper	20kHz, 2kHz, 200Hz, Filter OFF								
	al jumper	Logic (DC), Magnetic pickup (AC)									
	per	Sink/Source (digital transistor or switch interface), Namur (2-wire proximity detector),									
	Loud Juill		Tacho (AC magnetic pickup)								

Ordering codes and specifications

IN-RTB - Flow Rate and Batching Controller with relay outputs



www.intech.co.nz/in-rtb

Ordering Informa	tion 🗕	ITEMS		(CODE		DESCRIPTION					
	SERIES	IN-RTB-					Flow Rate and Batching Controller					
				N-				None				
				2-				2 x 5A relay outputs				
		RELAY OUT	PUIS	4-				4 x 5A relay outputs				
				6-				6 x 5A relay outputs				
					N-			None				
		ANALOG OL	JIPUI		A-			1x analog output				
			эт			N-		None				
		SERIAL FOR	XI			S-		1x serial port (Isolated RS485/RS232)				
						HV	85~265Vac / 95~370Vdc					
		FOWLK 30				LV	15~48Vac / 10~72Vdc					
Specifications	Input		0~24Vdd	, 0∼30Vac)) (+ 00)							
	Senso	or types	NPN, PN Direct K	IP, Mag (20 factor ontri	mv to 30	V), IIL, di	gital, closed					
	K fact	or ranges	3 ranges	for K facto	rs from 0	1 to 99 99	or 9999 99					
	Frequ	ency	2Hz to 1	2Hz to 10KHz								
	Power	r supply	HV: 85~2	HV: 85~265Vac / 95~370Vdc or LV: 15~48Vac / 10~72Vdc								
	Excita	ition	24V DC	24V DC (50mA max)								
	Accur	асу	0.005%	0.005%								
	Temp	drift	Typically	l ypically 2ppm/°C								
	Secur	ity	Setup is	Setup is Min code protected								
	Case		48 X 96 X	40 x 50 x 115.5mm (11 x W x D) 45.5 x 92.5mm panel culout								
	FLOW	ate	L Inits/se	Units/sec. units/min or units/hour								
	Rater	nultiplier	x0.0001	x0.0001 to x1000								
	TOTALIS	ER										
	Resol	ution	x1, x103	, x106								
	Featu	res	Low flow	cutoff and	reset at p	ower up						
	FEATUR	ES	Depart to	al and / ar	hotob mov							
	Volum	etric nulse		ai anu / oi le nuise wii	dth from 0	1 to 10.0	Jgic					
	Batch	ina	Batching	mode avai	lable, with	in-flight c						
	OPTIONA	۹Ľ										
	Analo	g output	Isolated	16-bit 4~20	mA / 0~10	OV output (le).					
	Serial	port	Isolated Data rate	RS485/RS2 25: 300~384	232. <u>Mode</u> 400 baud.	<u>es</u> : ASCII, I <u>Parity</u> : Od	U slave, Ranger A. none.					
	Relay	outputs	4 x 5A F	orm A relay	rs (1 used							
	JUMPER	SELECTABLE	OPTIONS									
	Input noi	se filter jumper	20kHz, 2l	kHz, 200Hz	, Filter OF	F						
	Input sig	nal jumper	Logic (DC	c), Magneti	c pickup (/	AC)						
Load jumper Sink/Source (digital transistor or switch interface), Namu							amur (2-wire proximity detector),					
.												

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Warning: These products are not designed for use in, and should not be used for patient connected applications. In any critical installation an independant fail-safe back-up system must always be implemented.



Phone: 1-800-49-VESPO or 1-239-348-8086 Fax: 1-800-36-VESPO or 1-239-348-9910