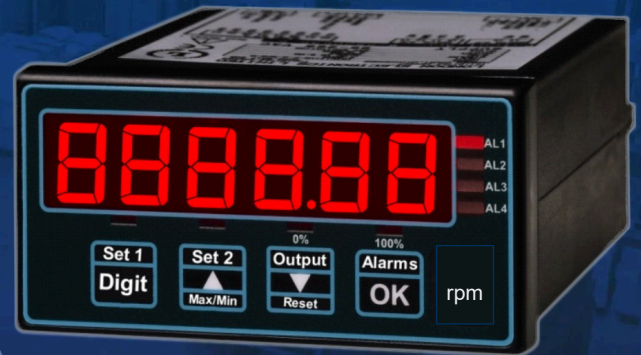


## INT4-C

*Counter Panel Meter*



## KEY FEATURES

- 6 digit LED display
- Pulse signals from NPN, PNP, Contact Closure, 24V logic, 5V logic, up to 50kHz
- 10 point linearisation
- 20-bit A/D converter
- 24V @ 60mA excitation voltage
- Isolated analogue output
- Alarm outputs, 2 or 4 relays
- Data output, RS232, RS422/485 or Modbus RTU

- **New single layer menu for easier setup**
- **Compatible with existing INT2 series**
- **IP65 front panel sealing**
- **IP67 front panel cover optional**
- **User friendly manuals**
- **95-265V AC or 11-30V DC power**
- **Multi-program memory option**
- **Sensor drift correction**
- **Direct or theoretical calibration**
- **Adjustable display brightness**

## DESCRIPTION

The INT4-C is the fourth generation counter 1/8 DIN INTUITIVE panel meter. It utilises a modular construction technique which enables you to configure it with the exact functionality you require. This flexible approach ensures that you only pay for the features you need. Ideal for use as a versatile counter, totaliser, frequency or RPM display.

The readout is provided by a 6 digit, 7 segment LED display which is coupled with an ultra-high resolution 20-bit A/D converter to provide your instrumentation with perfect resolution and stability. In addition the easy to use menu navigation allows you to have the indicator set up within minutes.

We offer a wide range of optional outputs including, voltage and current analogue outputs, 2 or 4 alarm relays with a wide range of configuration settings, data interface via RS232, RS422/485 + Modbus ASCII and Modbus RTU.

With backward compatibility with the existing INT2 series and the same front panel design, dimensions and connections it makes transitioning over to the INT4 easy.



## TECHNICAL DATA

Display	6 digit, 7 segment LED, 14mm high (-199999 to +999999)
Viewing Distance	7m
Digit Colour	Red (standard), green (optional)
Brightness	Variable, 7 levels
Input Signal	NPN, PNP, Contact Closure, 24V logic, AC tachometer, 100mV passive Inductance pick up
Excitation Voltage	24VDC nominal rated at 60mA (5V or 10V optional)
Frequency Range	0-40 kHz for total, 0-100 kHz for rate, 9.5 kHz for quadrature absolute limit (38,000 edges/sec)
Display Modes	Rate, Period, Totalising, Production rate, Quadrature
Averaging of rate	Adjustable to suit your application, up to 8 hours
Power Supply	95-265V AC (standard), 11-30V DC (optional)
Power Burden	10VA max
Resolution	1:400,000 max. (bipolar)
Display Update Rate	3 readings per second for rate, 10 readings per second for total
Input Connections	6 screw terminals for current and voltage Inputs
Accuracy	+/- 0.05% of range, +/- 20 ppm/Degree Celsius temperature coefficient
Linearisation	10 points
Filtering	Adjustable from 0 to 25 seconds. Active filter
Last Digit Round-up	Selectable 1, 2, 5, 10, 20 or 50
Front Panel Controls	Calibration, tare, reset, max/min, alarms
Thermal Stability - Range	+/- 25ppm/°C
Thermal Stability - Offset	+/- 30ppm/°C
Logic Inputs	3 (normally open, NPN or contact closure)
Logic Functions	Tare, peak/valley, reset Hold, net/gross, memory address 1,2 or 4 (if multi-memory MEM option installed)
Unit of Measure Label	Sheet of labels included

## ENVIRONMENTAL

Front Panel Sealing	IP65 (standard), IP67 with optional SPC4 cover
Storage Temperature	-20 to +70°C, non-condensing
Operating Temperature	0 to 50°C, non-condensing

## ANALOGUE OUTPUT (optional)

ANI Option	0-20/4-20mA into 0 to 500 Ohms, Resolution 0.4uA
ANV Option	0-10V into loads >600 Ohms, Resolution 0.2mV
ANB Option	+/- 10V into loads >600 Ohms, Resolution 0.4mV
Scalable	Yes
Isolated	Yes
Accuracy	0.1% of range
Linearity	+/- 0.02% of range
Stability	50ppm/°C

## ALARM OUTPUTS (optional)

AL2 Option	2 x SPST mechanical relays, 2A @ 250V AC, resistive load
AL4 Option	4 x SPST mechanical relays, 2A @ 250V AC, resistive load
DSS Option	2 x solid state relays, specify AC or DC, 100mA max @ 250V AC, 500mA max @ 60V DC
QSS Option	4 x solid state relays, specify AC or DC, 100mA max @ 250V AC, 500mA max @ 60V DC
SPCO Option	2 x SPCO mechanical relays, 2A @ 250V AC, resistive load

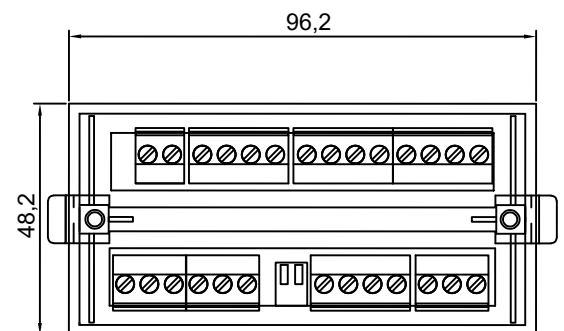
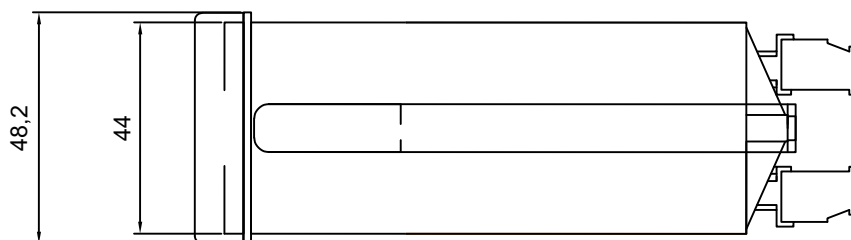
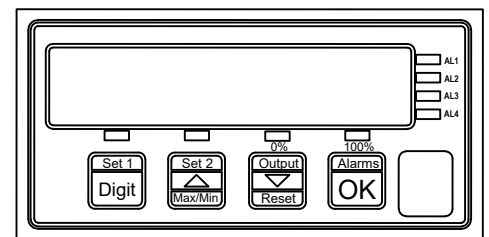
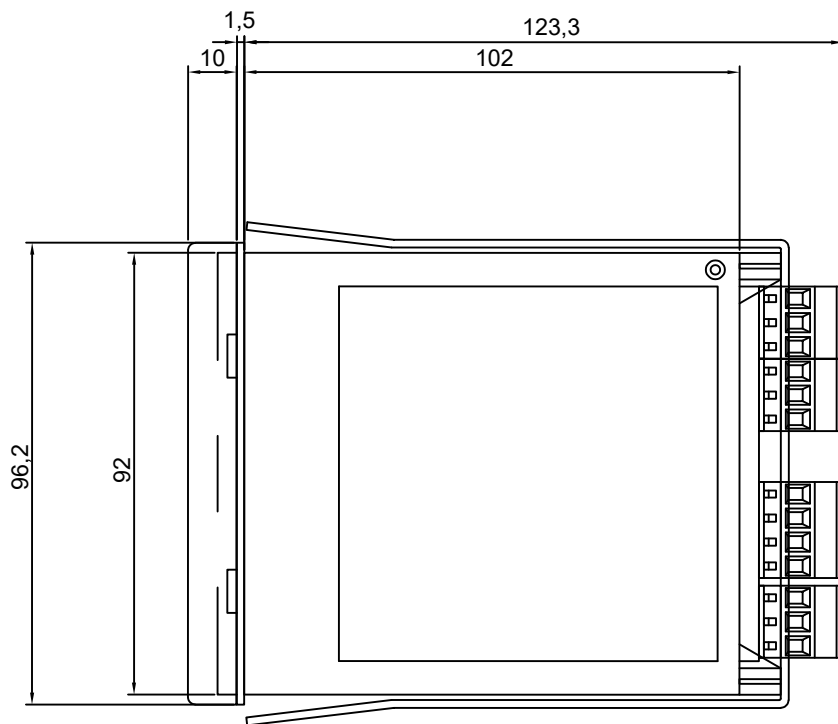
## DATA INTERFACE (optional)

232 Option	RS232 ASCII
485 Option	RS422/RS485 ASCII + Modbus ASCII
RTU Option	RS485 Modbus RTU



## WEIGHTS AND DIMENSIONS

Bezel Size	96mm x 48mm
Panel Cutout	92±1mm x 45±1mm
Depth Behind Panel	125mm
Case Width	92mm
Case Height	44mm
Case Depth	134.8mm
Typical Weight	300 grams
Individual Packed Weight	800 grams
Individual Packed Dimensions	190mm x 130mm x 65mm
Case Material	Black polycarbonate
Cable Dimensions	Accepts multi strand wires total area from 1mm <sup>2</sup> to 4mm <sup>2</sup>
Mounting	Panel (standard), DIN rail mounting (optional), wall mounting enclosure (optional)





## ORDERING CODES AND OPTIONS

	INT4	-C	-X	-X	-X	-X	-X	-X
<b>Input Type:</b>								
Counter		C						
<b>Analogue Output:</b>								
None		0						
-10 to +10V		ANB						
4-20mA		ANI						
0-10V		ANV						
<b>Alarm Outputs:</b>								
None		0						
2 x SPST mechanical relays		AL2						
4 x SPST mechanical relays		AL4						
2 x solid state relays (specify AC or DC)		DSS						
4 x solid state relays (specify AC or DC)		QSS						
2 x SPCO mechanical relays		SPCO						
<b>Data Interface:</b>								
None		0						
RS232		232						
RS422/485 + Modbus ASCII		485						
Modbus RTU		RTU						
<b>Digit Colour:</b>								
Green						G		
Red						R		
<b>Power:</b>								
95-265V AC						AC		
11-30V DC						DC		
<b>Options:</b>								
100 readings per second							100X	
USB reader and copier (with CD and cable)							CLONE	
Real Time Clock module							H	
8 program memory							MEM	
Namur pulse input for counters/ratemeters							NAMUR	
Connection for 4 external programming buttons							PBEXT	
Potentiometer input for process meters (3 wire, 10V)							POT	
20mA current loop (TTY) for RS232 systems							TTY	
Intuitive cowl							COWL	

### Ordering example:

**INT4-C-ANI-AL2-232-R-DC-100X**

INT4-C Counter panel meter

ANI 4-20mA

AL2 2 x SPST mechanical relays

232 RS232

R Red

DC 11-30V DC

100X 100 readings per second

