

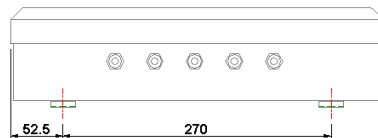
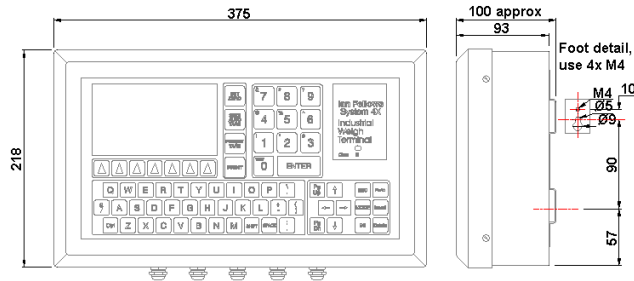
System 4X Data Sheet

Designed for performance in specialist applications

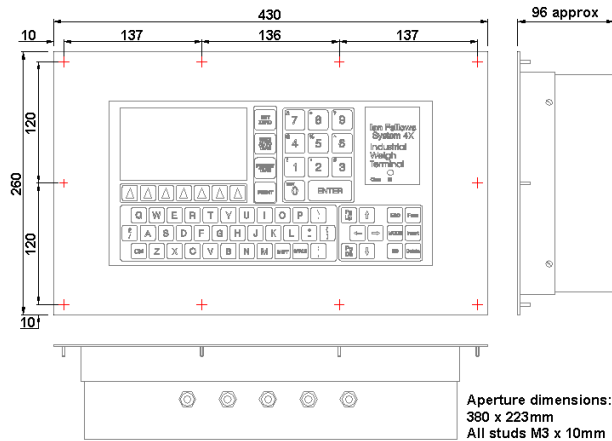
- Features**
- q APPLICATIONS PRODUCED TO INDIVIDUAL SPECIFICATION.
 - q Backlit graphic LCD display.
 - q QWERTY keypad.
 - q Numeric keypad and 4 semi-permanent function keys.
 - q 7 Programme driven 'soft' keys.
 - q Stainless steel enclosure with integrated wall mounting brackets.
 - q Trade Approved for any R60 loadcells.
 - q Trade Approved for many legacy loadcells.
 - q High resolution weighing performance.
 - q Linearity adjustment.
 - q Accommodates extremes of dead load and signal.
 - q Superb digital weight filtering.
 - q x10 resolution test mode.
 - q Four serial ports, including RS232/485/422.
 - q 6 inputs, 3 relay outputs, 6 darlington outputs.
 - q Real time clock.
 - q Multi-drop communications.

- Options**
- q Flange mount version.
 - q Analogue output.
 - q Extended I/O.
 - q Custom Software.

System 4X Dimensions



**System 4X
Flange Dimensions**



Specifications

General Specifications	Display		Backlit graphic LCD
	Front Panel		Membrane with tactile metal domes, beep response
	Internal Resolution,	counts	20 bit ADC (1:1,000,000)
	Maximum Display Resolution (trade)	divisions	10,000
	Maximum Display Resolution (non-trade)	divisions	500,000 (x 10 test mode)
	EC Approvals OIML Class III + IIII	certificate	NMI T2532 TC 2489 NWMML UK 2489
	Input Signal Range	mV/V	-4.5 → 4.5
	Zero Offset Range	%	100% of Input Signal Range
	ADC Conversion Rate	Hz	50
	Linearity error	%FS	< ± 0.0007%
	Differential non linearity		± 0.5 LSB
	Span temperature coefficient	ppm/°C	1
	Zero temperature coefficient	uV/°C	0.005
	Power consumption (typical)	W	5-10
	Common Mode Rejection (@50Hz)	dB	200
	Power Supply Rejection (@50Hz)	dB	120
	Operating voltage	VAC	230/115Vac
	Weight	kg	6kg (shipping 6.5kg)
	Transducer Input Specifications	Transducer type (4 or 6 wire)	
Transducer input resistance		Ω	min 43Ω (up to 8 x 350Ω cells)
Excitation voltage		Vdc	10 (nominal)
Minimum signal requirement (approved)		mV/e.	1
Minimum signal requirement (non-approved)		mV/e	0.2
Input impedance		MΩ	≥ 20 (sense and signal)
Serial Communication	Communication Ports		COM1 Printer RS232 (TX/Busy) COM2 Comms RS232/RS485/RS422 COM3 RS232TX/RX COM4 RS232TX/RX
	Baud rate	bits/sec	2400, 4800, 9600
	Protocol		7/8 data bits, odd/even/no parity, 1/2 stop bits
	Maximum continuous data rate (test mode)	Hz	50
	Communication protocol		Ascii or ModBus*
Environment	Operating Temperature	°C	-10 → 40
	Storage Temperature	°C	-10 → 70
	EMC Immunity /Emissions		EN45501, EN55022
	Sealing		IP66
	Case		Grained 304 Stainless Steel Integrated mounting Brackets
	Cable Glands		5 off PG7
I/O	Analogue output* 0-10V or 4-20ma		15 bit (adjustable range) Max drive load for 4-20mA: 900Ω(active)/1200Ω (passive)
	Inputs		2 AC + 4 DC opto coupled <6V off; >10 -30V on
	Outputs		3 Relays – various types available 6 Darlington type transistor
	Expanded I/O		8 inputs (mains or 24vdc versions) 8 changeover relay outputs

* According to specification

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