

Weight Indicator: SMIT-4016



This is a microcontroller based Indicator unit. It is highly versatile, Accurate and different from the Conventional indicators. It displays Analog signal (mV) Input from the Load cell into engineering values. With the Help of the keypad and Display, unit allows to set & modify Various configuration parameters & calibration.

General Specifications:

Display	6 Digits, 7 segments RED LED, 0.56" height
Keyboard	4 Keys (Index, Up arrow, side arrow, Esc) Membrane
Decimal Point	Selectable: 00000.0, 0000.00, 000.000 (XXXXXX.X, XXXX.XX, XXX.XXX)
Programmable parameters	Capacity, Display Resolution, Grad, Zero Track Band, Zero Range
EEPROM/Flash Memory	Configuration Data are stored in serial EEPROM/Flash RAM and Battery backup not required
Analog to Digital Converter	
Type	24-bit, (Delta-Sigma with integrated analogue and digital filter)
Conversion Rate	15 measurement values per sec
Resolution	Internal up to 16 million counts; display up to 10,000 counts
SCALE CALIBRATION AND FUNCTIONS	
Calibration	Calibration with weight
Digital filter	Step width : 0,1,2,5 Round OFF : 1,2,5 Moving Average : 0 to 30
Weighing functions	Tare, zero, auto zero tracking, auto-zero at power-up, auto-net at power-up
Linearity	Within 0.01 % F.S.
Load cells	
Excitation	5 V DC at 58...1 200 Ω , max. 100 mA
Number of load cells	Up to 8 load cells (350 Ω) or 18 load cells (1 100 Ω) in parallel
Connection	4-wire technology
Power Supply	12...28 V DC, max. 300 mA / 110-230VAC (Factory configured)
ENVIRONMENT AND ENCLOSURE	
Operation Temperature & humidity	-10 °C to +50 °C; 85% RH max, non-condensing
Housing & Protection	Panel mount, Aluminum Extruded, SS Front & Back
Dimensions & Weight	48 x 96 x 110 mm (W x H x D), 0.5 kg
Cut-out	92 mm (W) x 44 mm (H)
Serial Interface	One Port Factory configured for communication with remote display/Printer/Computer using RS-485/RS-232C (Factory configured)
Baud rate	1200 to 115 200 baud
Digital Input	Two digital inputs, Islated Remote input for GROSS/NET, TARE and Zero functions programmable
Output	UP to 2 relays output (Batching or Alarm selectable) Contact rating: Transistor Outputs: 2 (Open Collector: 24 V DC, max. 100 mA), (Isolated)
ANALOG OUTPUT	4-20 mA, 0-20 mA, 0-10 V or 0-5 V, 16 bit (Isolated)

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Ordering Code

Model	Input Type		Digital Input		Serial Interface		Relay		Relay type		Software		Analog O/P	
4016	X		XX		XX		XX		XX		XX		XX	
	1	Load cell	N	None	N	None	N	None	N	None	S1	Standard	N	None
			Y	Yes	C1	RS232	R1	1 relay	T1	Batching	S2	Special*	A1	4-20 mA
					C2	RS485	R2	2 relay	T2	Alarm			A2	0-10 VDC

X – Specify from Table

* - Customized software

Example: SMIT 4016 with Digital Input, MODBUS RS232, 2 Alarm relays, 4-20 mA output with standard software

➔ Ordering code: SMIT 4016 : Y-C1-R2-T2-S1-A1

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