

Load Cell Hand Held Display

Model MTD

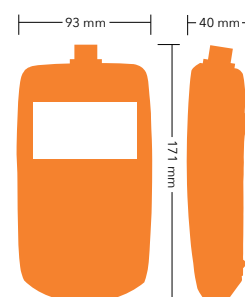
- High resolution ADC providing sensitivity of between 7.5 mV/V to 480 mV/V. (3.3 VDC Excitation)
- Strain bridge connector for six wire connection plus TEDS
- 128 x 64 dot matrix display with backlight
- Measurement rate up to 2,400 SPS
- Ergonomic design with improved grip and shock protection
- Six calibration ranges
- Supports TEDS templates 33, 40, 41



SPECIFICATIONS

STRAIN GAUGE MEASUREMENT

Parameter	Min.	Typ.	Max.	Units	Notes
Measurement Method			6 Wire		Can accept a 4 wire input.
Excitation Voltage	3.2	3.3	3.4	VDC	
Drive Capability	85	-	10,000	Ohm	
Sensitivity FSR Ranges ¹	±7.5	-	±480	mV/V	
Linearity ²		±2		ppm/FSR	In high quality operating mode
Offset Temperature Stability		12		nV/°C	At 2.5 mV/V
Gain Temperature Stability		1	2	ppm/°C	
Internal Resolution		24		bit	
Resolution at 1 SPS		1,100,000 (20)		Counts (bit)	
Resolution at 10 SPS		550,000 (19)		Counts (bit)	Noise free at ±7.5 mV/V range
Resolution at 2,400 SPS		6,500 (14.3)		Counts (bit)	
Filters					



ELECTRICAL, MECHANICAL AND ENVIRONMENTAL

Parameter	Min.	Typ.	Max.	Units	Notes
Display Resolution		128 x 64		Pixels	
Buzzer Acoustic Output		45		dB	
Power Supply ³		2 x AA (LRx) or USB powered			
Power Consumption		35		mA	Measurement operation
Standby Current		75		µA	
Battery Life Low Quality 1Hz		220		Hrs	
Battery Life High Quality 1,200Hz		60		Hrs	
Operating Temperature Range	-10		50	°C	
Storage Temperature Range	-20		80	°C	
Operating Humidity Range	0		95	%RH	
Environmental Protection		IP64 (With connector mated or unmated)			
External Dimensions		L: 170 mm, W: 94 mm, H: 42 mm			Excluding mated connector
Weight		365		g	Including batteries

Mating Connector

Options covering 2.5 to 8 mm cable diameter.

