METTLER TOLEDO







DATA BRIEF

IND780

Industrial Weighing Terminal

IND780 Specifications			
Enclosure Dimensions	• Panel-mount: 220 x 320 x 105 mm (8.7 x 12.6 x 4.1 in.)		
(L x W x D)	• Harsh Environment Desk/ Wall /Column-mount: 200 x 299 x 235 mm (7.8 x 11.8 x 9.3 in.)		
Shipping Weight	5 kg (11 lb)		
Enclosure Construction /	Panel-mount: stainless steel front panel, certified TYPE 4x/12 (ref. IP65)		
Environmental Protection	Harsh Environment: stainless steel, IP69K certified		
Display	Backlit LCD graphic display; 320 x 240 pixels; QVGA, 145 mm (5.7 in); monochrome or active TFT color (opt.)		
Power	Universal power supply, 100 to 240 VAC at 49 to 61 Hz , 400 mA consumption		
Scale Types	• Analog Scale: 10 VDC excitation powers up to (8) 350Ω load cells, 2 or 3 mV/V, per channel		
	 POWERCELL[®], 	01 00	
	X-Base SICS (S	tandard Interface Command Set) Interface	
Update Rates	A/D of 366 Hz, Target (setpoint) of 50 Hz, PLC interface of 20 Hz, Serial up to 20 Hz		
Standard Connectivity	(1) RS-232; (1) RS-232/422/485; Ethernet 10/100 Base-T; USB Master (External Keyboard)		
Serial Interface Protocols	 Inputs: ASCII commands for Clear, Tare, Print, Zero; barcode; SICS Level 0 and 1 (Excl. Display Messages) 		
		ER TOLEDO Continuous or Demand; continuous template with up to 10 configurable templates;	
		interfaces external ARM100 Input/Output module and DeviceNet Bridge (DNB)	
Operating Environment	-10°C to 40° C (14°F to 104°F), 10% to 95% relative humidity, non-condensing		
Agency Approvals	Weights and	USA: Class II 100,000d; Class III/IIIL 10,000d; CoC 06-017	
(Pending)	Measures	Canada: Class II 100,000d; Class III/III HD 10,000d; CoC, #AM-xxxx (Pending)	
		Europe: Class II depends on platform/base; Class III, IIII 10,000e; TC6944; with alibi memory	
	Safety	CUL, UL, CE	
	Hazardous Area	USA: Class I, Div 2, Groups A-D, F, G when installed per drawing xxxxxxR (Pending)	
		Europe: Category 3 GD, Zone 2/22 when installed per drawing xxxxxR (Pending)	
Interface Options	 PLC (one option only): Allen Bradley[®] RIO, ControlNet[™], Profibus[®] L2DP, EtherNet/IP[™] 		
	Discrete I/O: Maximum of 40 inputs, 56 outputs		
	Local (Relay or Solid State): (Up to 2) 4 inputs, external sink 5-30 VDC; 4 outputs @ 30 VAC/VDC, 1 A max.		
	Remote: (Up	to 8) ARM100 I/O modules, 4 in/6 out @ 60 VDC/250 VAC, 1 A max.	

Features	Benefits
Stainless Steel	• Harsh Enclosure has no exposed fasteners or loose parts; IP69K, ideal for heavy washdown when using pressurized
Enclosure Design	cleaning solutions
	• Panel Enclosure - UL listed to TYPE 4x/12 (ref. IP65) standards; Flat front panel reduces potential for accumulating
	contamination; Shallow depth design reduces mechanical interference within enclosures
Superior Weighing	 1,000,000 Internal Counts of resolution at 366 updates per second
Performance	 TraxDSP™ tunable digital filtering minimizes environmental effects on weighing accuracy
	 366 A/D Updates per Second including TraxDSP filtering
Multiple Weighing	 Concurrent Monitoring and Control of four independent measurement channels
Channel Support	 Metrologically Approved Sum Channel allows individual selection of up to four channels for summing
	 Combinations of Transducer Types supports maximum flexibility for speed, accuracy and capacity
	 Single or Multiple Channel display of weight and sum of channels
SmartTrac [®] Graphic	 Over / Under Mode to provide operators with a visual indication of weight versus a target
Display	 Bar Graph Mode provides a visual indication for manual filling applications
	 Crosshairs Mode provides an alternate view for filling or weight versus target
Advanced	 Traditional - Test weights are used to assure traceable calibration
Calibration Methods	 CalFREE™ - Allows analog scales to be calibrated without using test weights
	 StepCal – Simplifies the use of the substitution method with fewer errors
	 Calibration Management – Sets up automatic calibration test reminders to assure continued weighing reliability
	 Calibration SOPs – Defines calibration procedures for operators or technicians
TraxEMT™	• Embedded Maintenance Technician automatically logs configuration changes, errors, failures, overloads, provides
Maintenance	asset statistics for ISO compliance
Functions	Built-in Diagnostic Tests for calibration, memory, communications and load cell output to maximize uptime
	Web-based Service Diagnostic Tools with access to a wide variety of scale, load cell and terminal statistics
Application Solutions	• Drive-780 Vehicle Application provides specific solutions tailored to vehicle weighing, including storage and retrieval
	of weights, traffic light control, tare expiration and commodity conversions
	• TaskExpert [™] development tool allows creation or customization of specific solutions to meet your unique application