



# IND690

## Industrial Weighing Terminal

### Specifications

<b>Dimensions</b>	<b>Enclosure</b>	<b>Height</b>	<b>Width</b>	<b>Depth</b>	<b>Weight</b>
	<b>Panel-Mount</b>	205 mm (8 in)	355 mm (14 in)	100.5 mm (4 in)	4.7 kg (10.4 lb)
	<b>HE Desk/Wall-Mount</b>	165 mm (6.5 in)	354 mm (13.9 in)	219 mm (8.6 in)	4.2 kg (9.2 lb)
<b>Enclosure Construction / Environmental Protection</b>	Desk/Wall Model: Chrome-nickel steel DIN X5 CrNi1810 Panel: Front material chrome-nickel steel DIN X5 CrNi1810IP69K (DIN40050): resistant to high-pressure/steam jet cleaning. NSF GMP				
<b>Power</b>	Universal power supply, 100 to 240 VAC at 50 to 60 Hz Power: 60 VA				
<b>Display</b>	Graphical Vacuum florescent, 35mm weight display, screen size 195 x 46 mm				
<b>Keypad</b>	6 user selectable soft keys; Clear, Tare, Print, Zero, navigation keyset; numeric keys; 6 application keys				
<b>Scale Types</b>	<ul style="list-style-type: none"> <li>Analog Scale: 8.75 VDC excitation powers up to 4 350Ω load cells, 2 or 3 mV/V</li> <li>IDNet Scale: interface current high precision K bases and platforms.</li> <li>SICS Scale: Interface SICS compatible scales</li> </ul>				
<b>Performance</b>	Maximum update rates: Analog to digital 20 Hz				
<b>Display Resolution</b>	450,000 divisions				
<b>Connectivity</b>	RS-232, RS-422/485, CL20mA, Bluetooth, USB, Ethernet, Wireless, ProfibusDP, Digital I/O				
<b>Serial Interface Protocols</b>	Mettler-Toledo Continuous, Short Continuous, MMR, SICS, Print Mode and Dialog mode				
<b>Interface Options</b>	Flexible interface options with 9 available slots total. Slot 1 is always RS-232 and slot 9 is PS/2 so 7 slots remain for scale and connectivity choices. Up to 4 scales supported.				
<b>Operating Environment</b>	-10°C to +40° C (14°F to 104°F) for accuracy class III, -0°C to +40° C (32°F to 104°F) for accuracy class II				
<b>Agency Approvals</b>	<b>Weights and Measures</b>	USA: Class II 100,000d; Class III/IIIL 10,000d; CoC 06-051 Canada: Class II 100,000d; Class III/III HD 10,000d ( <b>Pending</b> )			
	<b>Safety</b>	UL Approved for use in USA and Canada, CE			

Features	Benefits
<b>Enclosure</b>	IP69K along with NSF approval suitable for the food industry, GMP for the chemical industry
<b>Up to 4 Simultaneous Scales</b>	Mix and match any of the IDNET, Analog, SICS or Monobloc BBK scales. View all scales at the same time as well as the SUM scale
<b>BigWeight™ Display</b>	Large VF display is easy to read in low light conditions, from a distance and at various angles. Makes manual transactions easier, because the user can easily see what is happening. Delta-trac graphically shows weights and targets
<b>Flexible Printing</b>	Print templates assigned to individual buttons and simultaneous printing from one button to multiple communication ports allows very flexible options for your needs
<b>Application Software</b>	Software applications exist for manual formulation, totalizing, counting, batching, filling, checkweighing and classifying as well as a communication software application to allow remote control of the IND690 from a PC running your own customized PC application software.
<b>Connect to your Networks</b>	Ethernet and Wireless 802.11b as well as Bluetooth allow you to connect the IND690 when and how you want to your standard networks. USB is offered to connect the IND690 to a PC instead of using serial ports.
<b>Connect to Production</b>	Barcode readers, RFID, Analog out and ProfibusDP allow the IND690 to fit manual weighing well and add automation as needed.
<b>Multiple Serial Protocols</b>	Easy connection to remote displays and METTLER TOLEDO accessory modules. Same protocols can be used with any interface, Ethernet, Wireless, Bluetooth, USB, RS-232, RS-422/485 or CL20mA. MMR and SICS commands allow your PC to collect data from the IND690.
<b>IND Terminal Manager PC Configuration Program</b>	Easily update firmware, backup and restore setup and data, configure print templates.
<b>PC Application Programs</b>	PC software for manual formulation, Microsoft Access compatible. Additional software available for counting and filling applications.

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