

IND690 Weighing Terminal

Professional Weighing Technology for hygienic sensitive areas



High degree of IP – protection enables high pressure cleaning.

Easy cleaning is provided by an optimized design, confirmed by NSF and EHEDG.

The IND690 can be used worldwide because of it's international Approvals.

Up to 4 analogue or digital scales simultaneous.

AC-power-operation.

10 High performance software application packages.

Requirements

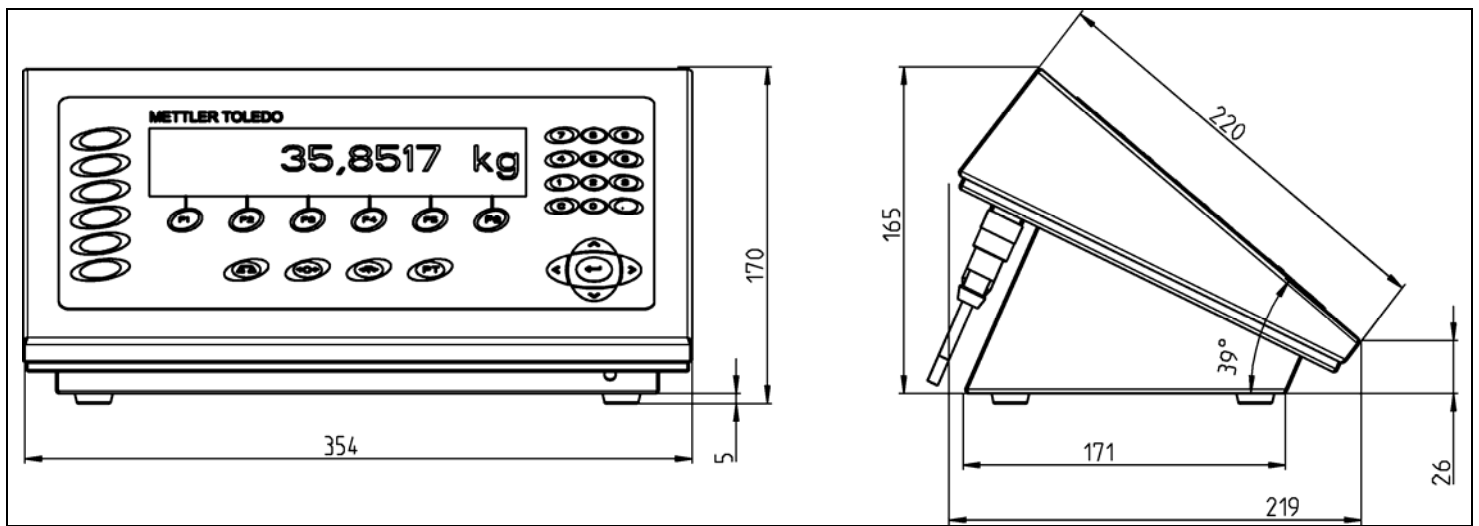
The IND690 is especially designed for harsh environments. If you have one of the following requirements, the IND690 will be the perfect solution!

- Easy cleaning
- High pressure cleaning
- Water- and dust-tight
- Tested to be used in hygienic sensitive areas
- Tested to be used in GMP areas
- World-wide approvals
- Weights- and measures approved
- Easy operation

Functionality

The very large assortment of Mettler-Toledo weighing technology can be connected to the IND690.

Different data interfaces are available. The standard RS232, but also Ethernet, WLAN or Profibus-DP ease the connection of the IND690 to your IT-environment.

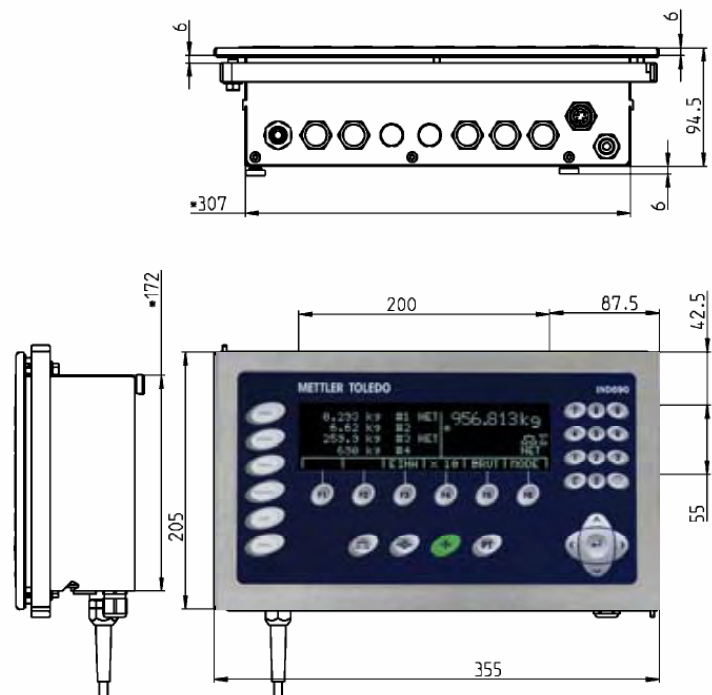


Enclosure / Environment	
Housing	Bench model (angled desktop), suitable for wall mounting. Compact housing for front panel mounting.
Material	Chrome-nickel steel DIN X5 CrNi1810
Schutzart	IP69K (DIN 40050): resistant to high-pressure/steam jet cleaning
Ambient Temperature	-10 ... +40 °C for accuracy class III, 0 ... 40 °C for accuracy class II
Display	
Active, high-luminance VFD dot matrix display, graphics capability, green	
Screen size, Resolution	195 x 46mm, 170 x 40 pixel
BIG WEIGHT® - Display ¹	Patented, large display, showing weight or other data, characters are up to 35mm high
Display cover	Scratch-proof, toughened safety glass. For UK and USA: polycarbonate
Keyboard	
Type	Three-point membrane keypad with sensed key action, acoustic acknowledgement
Surface	Closed, smooth surface of heavy duty polyester, with raised, embossed buttons
Key functions	<ul style="list-style-type: none"> • 6 keys A to F for identification data • 6 function keys F1 to F6 • 4 weighing-function keys • Numeric entry keypad • Navigation keypad with Enter-key
Power supply	
Voltage	100-240 V, +10/-15%, 50/60 Hz Or 24V optional
Power input	60VA approx.
Interfaces	
Standard	1 x RS232
Optional (maximum 8 more interfaces)	CL20mA, RS232, RS422/485, Ethernet, WLAN, USB (Slave), Bluetooth, Profibus-DP, Digital 4I/O intern or up to 64I/O extern via Relaysbox-8, Analog-Out, PS2/MFII for external keyboard
The interfaces are accessible via IP-protected receptacles	

Approvals, Assessment	
Metrology	NTEP, OIML
Hygiene	NSF, EHEDG, GMP
EI. Safety	CSA - C US, CE
IP protection	IP69K, DIN 40050 (Desk/Wall and front of the Panel-version)

Weighing technology	
Connectable platforms	4 (+ from it calculated sum-scale)
Types of connectable weighing platforms	IDNet-Scales, SICS-Scales (also via Bluetooth), Analog-Scales (also from other suppliers)
Technical Data of the A/D converter for Analog-Scales:	
Impedance	min. 87,5 Ohm
Excitation voltage	8.75 V
Sensitivity	0 to 3 mV/V
Max. Resolution	10.000d (NTEP) 7.000e (OIML) 450.000d non-approved
Min. verification interval	0.58µV / e

Application Software Packages	
High performance application software packages for special weighing tasks:	
Base-690	Basic functions, totalizing
Count-690	Counting, totalizing
Form-690	Formulating, totalizing
Com-690	Computer dialog mode
Sum-690	Totalizing on 3 levels
Fill-690	Dispensing
Batch-690	Multi-component dispensing
Control-690	Verifying, classifying
FormXP-690	Convenient formulating with PC connection
Sys-690	Free programmable



¹ BIG WEIGHT® is a registered trademark of Mettler-Toledo (Albstadt) GmbH.
German Patent 197 32 659. European Patent 0 895 071.