

ICS685rem Scales

Connect to FreeWeigh.Net® for Enhanced Productivity



Optimized for productivity

ICS685rem has been optimized for connection to FreeWeigh.Net®. The ability to connect to this networked quality assurance system ensures critical quality control parameters are recorded and can be centrally managed for complete coverage of your production process.



Interface flexibility

The ICS685rem remote scale is equipped with one serial RS232 interface and one Ethernet interface. These standard connection capabilities help ensure optimum flexibility and usability. Additional interfaces are available as options.



Remote compact balances

A robust and reliable solution

Many net-content monitoring applications require a robust, easy-to-operate scale that can be put into service quickly in tight spaces. ICS685rem has a built-in function which allows it to connect directly to the METTLER TOLEDO FreeWeigh.Net® quality control system. This easy, quick connection means sample data—including critical quality attributes—can be recorded without bringing a PC on the production floor for simplified, streamlined processing and significant time savings. Once statistical data has been recorded, it can be reviewed and analyzed immediately.

e **FreeWeigh.Net®**

METTLER TOLEDO

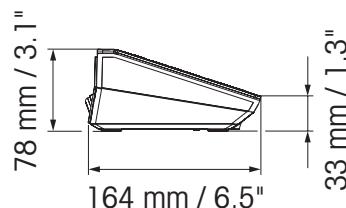
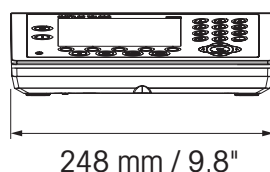
Technical Data ICS685rem

ICS685



Dimension & Type	248.5x164x78 mm / 9.78x6.46x3.71" Die-cast aluminium
Display	color TFT display (320 x 240 pixel)
Character height	Default layout mode = 20 mm, 3-line info mode = 15 mm
Languages	English, German, French, Italian, Spanish
Keypad	Tactile-touch membrane keypad (PET), scratch-resistant material
Numeric keypad	Alphanumeric keypad
Weight	2 kg
Mains connection	100 – 240 V / 50 – 60 Hz / 300 mA, Power cord approx. 2.5 m
Optional battery	12 V / 2.5 A 1 strain gauge weighing cell continuous operation ~ 15 h (less with installed options) Life time: 500 to 1000 charging/discharging cycles
Temperature range	Class III –10 – 40 °C / 14 – 104 °F Class II 10 – 30 °C / 50 – 86 °F
Humidity	Max. rel. humidity 85 % for temperatures up to 40 °C
Data interfaces	1 x Standard RS232, 1 x Standard Ethernet, 2 x Optional RS232
Connectable platforms	FreeWeigh.Net® supports 1 platform pro ICS
Analog scale connection	Impedance: ≥ 80 Ω (means 1 x 350 Ω; 4 x 350 Ω), Excitation: 3.3 V, Sensitivity: 2 to 3 mV/V Max. Resolution: 7500e (OIML), 300 000d (non approvable), Min. verification interval: 0.5 µV/e
Approvals	The Weights & Measures data is shown on the display. The display indicates if the system is approved or not. Approvals are: OIML, NTEP, IP65, CE, CSA
Accessories	Cable with plugs for offered interfaces, Stand (height 330 mm), Wall bracket, Windshield, Cover for terminal, Battery charger, Power supply with 9-28V DC
Special Features	Equipped with remote firmware for FreeWeigh.Net® connectivity

Terminal Dimensions



Compact Scales

For highest precision: MonoBloc® technology

- Approved resolution up to 61 000d NTEP
- Non-approved resolution up to 610 000d
- Fully Automated Calibration Technology (FACT) function calibrates the scale according to temperature changes and increases accuracy of weighing results

ICS685k-rem								
Size	0.6XS	3XS	6XS	6SM	15LA	35LA	6SM	15LA
Capacity [g]	610	3100	6100	6100	15100	35100	6100	15100
Readability Standard [d]	0.001	0.01	0.01	0.1	0.1	0.1	0.1	0.1
Divisions Standard [d]	610000	310000	610000	61000	151000	351000	61000	151000
Approved Readability [e] [g]	0.01	0.1	0.1	1	1	1	0.2	0.5
Approved Readability [d] [g]	0.001	0.01	0.01	0.1	0.1	0.1	0.2	0.5
Verification Interval [e] : [d]	e=10d	e=10d	e=10d	e=10d	e=10d	e=10d	e=d	e=d
Divisions Approved [d]	610000	310000	610000	61000	151000	351000	30500	30200
Repeatability (sd) [g]	0.001	0.01	0.01	0.1	0.1	0.1	0.1	0.1
Linearity [g]	0.002	0.02	0.02	0.2	0.2	0.2	0.2	0.2
Ingress Protection	IP54	IP54	IP54	IP54	IP54	IP54	IP54	IP54
Weight of scale	14.1 / 6.4	12.5 / 5.7	12.5 / 5.7	12.5 / 5.7	19.8 / 9	19.8 / 9	12.5 / 5.7	19.8 / 9

■ alternate configuration (non factory)

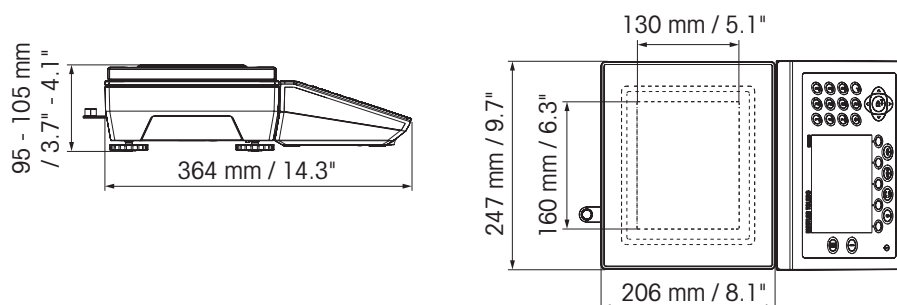
For best performance: Strain gauge technology

- Approved resolution of 1 x 6000e OIML
- Non-approved resolution up to 60 000d

ICS685d-rem				
Model	3SM/f (*)	6SM/f	15LA/f	35LA/f
Capacity [lb] [kg]	6 / 3	12 / 6	30 / 15	60 / 35
Approved readability NTEP/OIML [lb] [g]	0.001 / 0.5	0.002 / 1	0.005 / 2	0.01 / 5
Optional readability [lb] [g]	0.0001 / 0.05	0.0002 / 0.1	0.0005 / 0.2	0.001 / 0.5
Repeatability (sd) [g]	0.05	0.1	0.2	0.5
Linearity [g]	0.1	0.2	0.5	1
Housing size	Small	Small	Large	Large
Platform size [mm]	240x200	240x200	350x240	350x240
Ingress Protection: Standard/Optional	IP54	IP54	IP54	IP54
Weight of scale [lb] [kg]	12.1 / 5.5	12.1 / 5.5	16.9 / 7.7	16.9 / 7.7

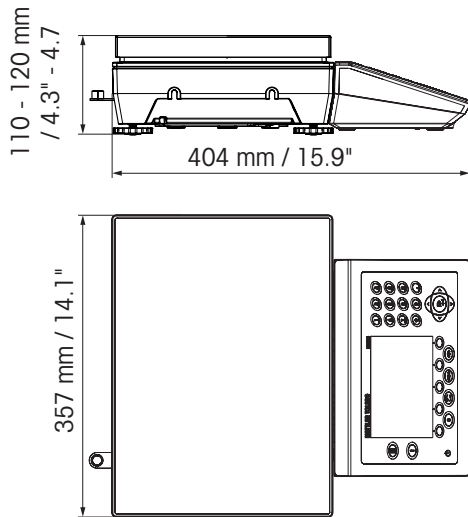
(*) reference scale configurability

Compact Scale with Small Platform

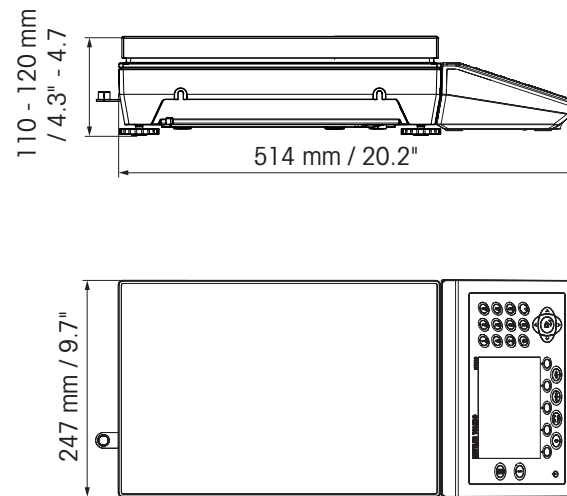


Compact Scale with Large Platform

The terminal is tightly mounted with two screws (wrench size 10 mm) on the platform.

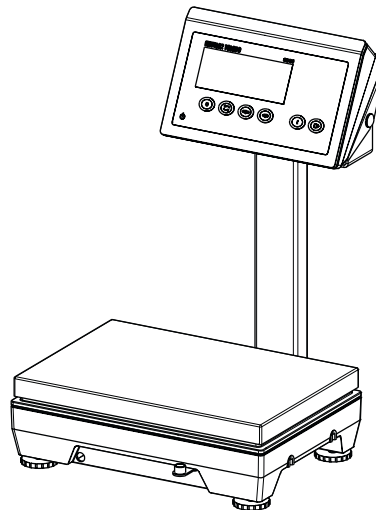


The terminal can be mounted on the longer and the shorter side of the platform or just placed next to the platform or mounted to the wall.



Accessories

- Cable with plugs for the offered interfaces
- Column (height 330 mm)
- Wall bracket
- Windshield
- Printers (P25; P26)
- Cover for terminal
- Battery charger
- Auxiliary display
- Relay box
- Power supply with 9-28V DC



Model with accessory column (height: 330 mm)

METTLER TOLEDO Service

www.mt.com/ICS685rem

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