



Terminal ICS466x

Safe and Compliant

Intuitive and Easy to Use

Versatile and Modular

Ergonomic and Flexible

Zone 1/21, Division 1



Safe and Accurate Weighing In Hazardous Areas

METTLER TOLEDO



Usability - Safety - Compliance

Built for Harsh Industrial Conditions

The ICS466x weighing terminal is specially designed for safe and accurate weighing in Hazardous Areas Zone 1/21, Division 1. The terminal is a perfect choice if you operate in harsh, corrosive and hazardous environments with the high concentrations of explosive gas or dust mixtures. It combines extreme temperature resistance with an intrinsically safe design to offer compliance with the latest hazardous area requirements.

Usability

- Intuitive and easy to use
- One terminal - three ways to install
- Multiscale interfaces
- ColorWeigh® for efficient filling and checkweighing
- Easily customized with bench and floor scale options

Safe, Robust and Reliable

- Intrinsically safe design for maximum safety and ignition protection
- High quality stainless steel housing to prevent corrosion
- Approved for harsh gas/dust environments
- Ingress protection IP65 for complete protection against dust and water

Regulatory Compliance

- Global and local hazardous area approvals IECEx, ATEX, FMc+us
- Global weights & measures approvals from OIML and NTEP
- Meets highest electromagnetic immunity standards



Designed for Ease of Use

Intuitive and Efficient Weighing

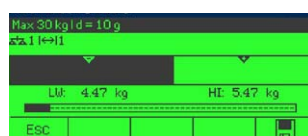
The ICS466x weighing terminal is designed to increase productivity in every production step. An easy-to-use and intuitive operation philosophy offers the flexibility to meet complex application requirements without any restrictions in hazardous areas.

Intuitive Operation

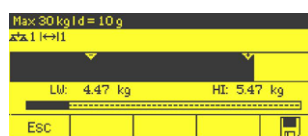
- Versatile, easily configurable LCD graphic display with colored backlight
- Tactile foil keypad with large buttons for simple operation with gloves
- Alphanumeric keypad for easy article and ID entry or tare management
- Soft keys for fast access to required applications and functions



colorWeight®



Within tolerance



Above tolerance



Below tolerance

Multi-Color Backlit Display - Colorweight®

Improved weighing efficiency

LCD graphic display with colored backlight provides easy-to-read information indicating whether or not the weighing result is within the tolerance. A bar graph allows real-time indication of the weight status during the filling process. Individual colors can be selected and assigned to each status.

A Broad Range of Applications

Flexible and fast

When you need straightforward weighing, the large LCD screen shows only relevant data. Customize the display according to your needs.

Intuitive Filling and Checkweighing

Color code your tolerance thresholds

The Filling and Checkweighing application makes weighing and control processes more convenient and efficient. Set your process parameters and tolerances and let it guide you through your process steps.



Versatile and Modular Meet Highest Performance Requirements

The ICS466x weighing terminal provides outstanding weighing performance. It is also easily customized to your hazardous-area weighing application offering the choice of compact bench scales, high precision platforms or a wide range of floor scales.



Best Performance

Analog weighing platforms from 3 to 12000 kg

- Available with both IP68 and IP69K protection
- Resolution range of 1x3000e, 2x3000e or 3x3000e

High Precision

Digital weighing platforms from 15 to 3000 kg

- Available with IP66 or IP67 protection
- High resolution with up to 32000e

One terminal - three ways to install:

To optimize your process, select the best ergonomic position when placing your ICS466x terminal. It can be fixed directly at the platform, mounted on a column or separated for desk or wall mounting. The external power supply APS768x serves the terminal with the necessary power. The ICS466x can be combined with the comprehensive METTLER TOLEDO platform assortment of bench and floor scales.



ICS466x - Front Mounted



ICS466x - Table/Wall
(Example with two scales)



ICS466x - Column

Ergonomic and Flexible

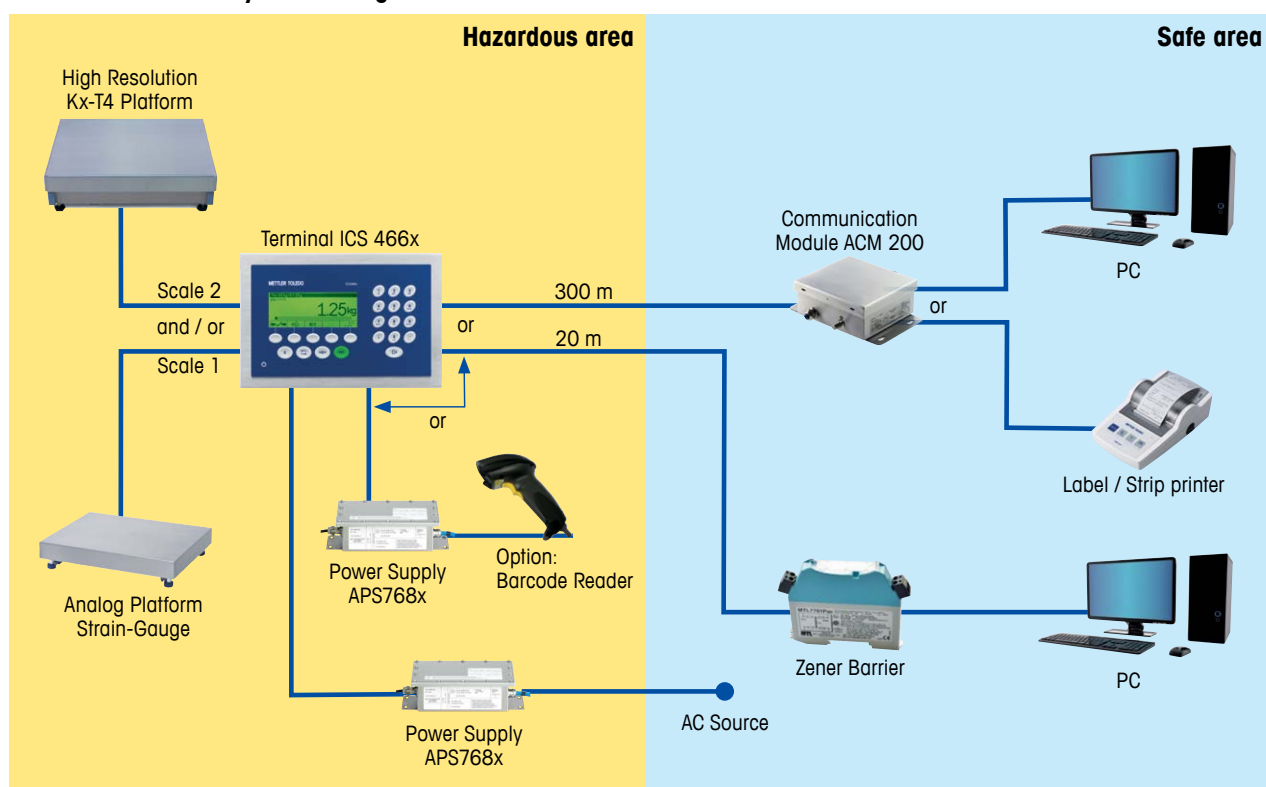
Designed to Cover Individual Needs

The ICS466x provides excellent flexibility and various data interface options. A comprehensive range of modular, intrinsically safe components are available to build a customized, safe and ergonomic weighing system.

- Intrinsically safe barcode reader interface for fast and efficient data capturing in hazardous areas
- Customized data printing in the safe area via the ACM200 communication module
- Product database for storage of up to 100 articles
- ALIBI memory contains important weighing information such as weight results, date, time and serial numbers. Data can be transferred to a printer or computer for further efficient process control with accurate and secure traceability
- The power supply APS768x for installation in hazardous area serves the intrinsically safe ICS466x terminal with the necessary energy and covers all safety aspects



Maximum Possible System Configuration





Five Steps to Tailor Your Scale

1

Applications/Terminals

Product Functions	ICS466x
Function key	Clear, Unit Switch, Zero, Tare
Soft Keys	5 Configurable Soft Keys
Units of Measure	kg, lb, oz, g, t
Keypad	Alphanumeric, Soft Keys
Display	LCD Liquid Crystal Graphic Display with Colored Backlight
Alibi Memory ¹	•
Date and Time	•
Languages	English, Spanish, German Italian, US English, Japanese
Platforms Attachable	2 Scales
Ingress Protection	IP65
Housing	Stainless Steel AISI304
Separate Power Supply	via APS768x - 120V or APS768x - 230V
Ex Approvals	
ATEX / CENELEC	II 2 G Ex ib IIC T4 Gb, II 2 D Ex ib IIIC T60°C Db
IEC-Ex	Ex ib IIC T4 Gb, Ex ib IIIC T60°C Db
FM (US and Canada)	IS Class I/II/III Div 1 Groups A,B,C,D,E,F,G T4 I/1/AEx ib IIC/ T4; IP65; Type 4
Weight and Measures Approvals	OIML: 10 000e, NTEP: 10 000d
Applications	
Simple Weighing	•
Manual Filling and Checkweighing	•
Accumulation	•
Remote Display	•



2

Interface Options/Accessories

Data Interfaces in Hazardous Area	Standard: RS232-IS 1 x communication interface current loop active to connect to the safe area communication module ACM200
Safe Area	Via communication module ACM 200 with RS232 or RS422 or RS485 or CL20mA interfaces



Model	Communication Interface Module ACM200	Power Supply APS768x
Installation	In the safe area	In the hazardous area
Input Voltage	24VDC, 100-240V AC, 50/60 HZ	120V, 50 / 60 Hz or 240V, 50 Hz
Power Supply Cable	2.4 m	1.9 m
Housing	Stainless Steel	Stainless Steel
Interfaces	RS232 or RS 422/485 or CL4-20mA	-
ATEX	II(2)G [Ex ib] IIC II(2)D IP66	II2G Ex em [ib] IIC T4 Gb -10°C - +40°C II2D Ext IIIC [ib] IP66 T70°C Db
FM	AIS Class I, II, III, Div. 1 Groups A-G	Class I,II,III Div. 1, Groups A-G, T4 Class I, Zone 1, AEx me [ib] IIC T4

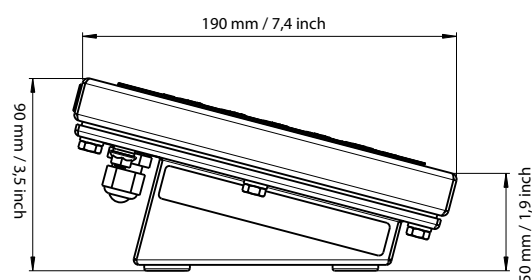
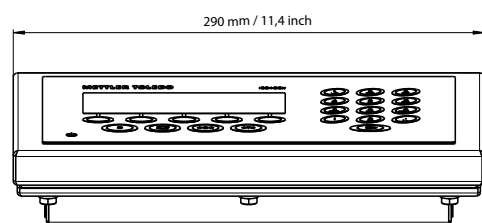
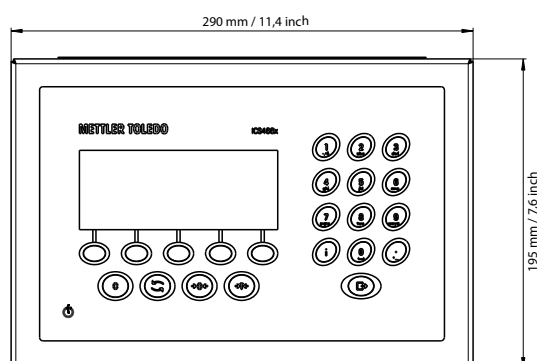
¹ Alibi Memory is the memory of a Weight & Measures approved weighing system. It is a scale embedded data-base that stores weighing data. This feature provides particular measurement details.

3 Platforms



Model	High Precision Kx-T4 Platforms	Analog Strain Gauge Platforms	Floor Platforms
Weighing Capacity	15 - 3 000 kg	3 - 600 kg	300 - 12 000 kg
Resolution	up to 32000e optional up to 320'000d	up to 3000e 1 x 3000e, 2 x 3000e	up to 3000e
Readability	0.1 – 50 g	1 – 200 g	1 – 200 g
Load Plate Material	Standards AISI 304, Option : AISI 316		
Ingress Protection	IP 66 / IP67	IP 68 / 69k	IP 65
Scale Interface	Digital - IDNet	Analog	Analog
Approvals	ATEX: 2GD FM: Class I, II, III, Div. 1		

4 Design/Dimensions



5 Service

Installation & Setup	Installation, setup, data loading, user training to ensure fast, initial start-up
Qualification	Equipment qualification to meet your local or international quality system requirements
Calibration	Calibration and certification to meet production or regulatory requirements
Preventative Maintenance	On-going maintenance to ensure dependable operation and long equipment life

Lifetime Performance – with Precise Service

The right scale choice is the perfect first step towards meeting your requirements. Realizing the results you expect also depends on precise installation, setup, calibration, training and maintenance. The right product and service together, deliver performance and security.

We designed your scale for efficient service and will tailor our services to your process and business needs to ensure that you realize and sustain accurate, dependable and accountable weighing results, with the productivity you require.

Service	Benefits
Consulting	<ul style="list-style-type: none">• Correct equipment selection and application consulting• Guidelines to ensure compliance with regulations (e.g. ISO16949)
Installation and Setup	<ul style="list-style-type: none">• Proper installation for accurate, repeatable weighing results• Functions configured to meet your needs• Installation that meets local regulatory requirements• Interfaces to other systems configured and tested for reliability
Equipment Qualification	<ul style="list-style-type: none">• Documents that performance meets requirements• Procedures for periodic device testing in production
Calibration	<ul style="list-style-type: none">• Concise and regulatory-compliant calibration certificates• Application of industry and regulatory tolerance standards
Preventive Maintenance	<ul style="list-style-type: none">• Check critical components to identify and eliminate potential failure to increase longevity• Test operation for weighing and application performance to avoid unexpected expenditures

Our global service organization delivers:

Uptime	support and repair
Performance	maintenance and optimization
Compliance	quality assurance and certification
Expertise	training and consultation

www.mt.com/ICS466x

For more information

Mettler-Toledo AG
CH-8606 Greifensee
Switzerland
Phone +41 44 944 22 11
Fax +41 44 944 30 60

Subject to technical changes
© 12/2013 Mettler-Toledo AG
Printed in Switzerland
MarCom Industrial

MTSI 44098588