# Safe and Accurate Weighing
## in Hazardous Areas

### Uncompromised safety and compliance

You need global compliance and METTLER TOLEDO delivers. ATEX, FM$_{C+US}$ and IECEx approvals allow worldwide utilization of the ICS466x. Specially designed for hazardous areas, it fulfills the requirements for Zone 1/21 or Division1. The focus on the intrinsic safety ensures compliance with the latest regulations in hazardous areas.

### Designed for easy use

Wearing gloves is no longer a stumbling block, as the big buttons simplify operation. Designed for checkweighing applications, the ICS466x provides a large graphical LCD display with colored backlight.

### Versatile and powerful

Increase your productivity in every production step with the ICS466x. Intuitive operation paired with applications fit for many processes make using the terminal easy. Its compact design makes it easy to integrate the ICS466x into your existing process.

**color**Weight®

**Zone 1/21, Division 1**

EX
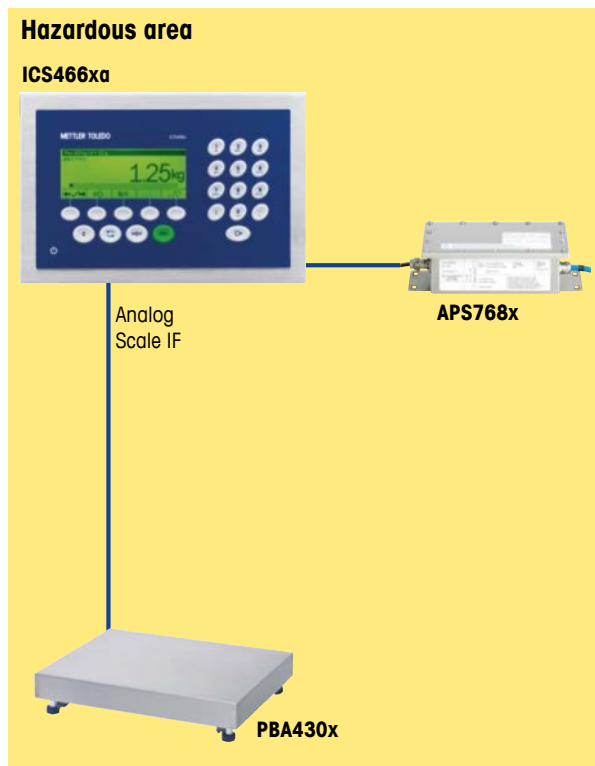
### ICS466x Weighing Terminal

This terminal is developed for chemical industry applications, including:

• Basic weighing
• Checkweighing
• Totalizing
• Manual filling

When weighing in hazardous environments, you need accuracy and reliability without sacrificing safety. Operators need terminals that work simply within their existing processes without slowing productivity. The ICS466x offers enhanced versatility and connectivity to the safe area, while maintaining the weighing accuracy for which METTLER TOLEDO is known. The terminal can be connected to two platforms and display them, it can also be connected to the safe area via an additional communication module or RS232 barrier with the peace of mind that METTLER TOLEDO's terminal has safety covered in the hazardous area.
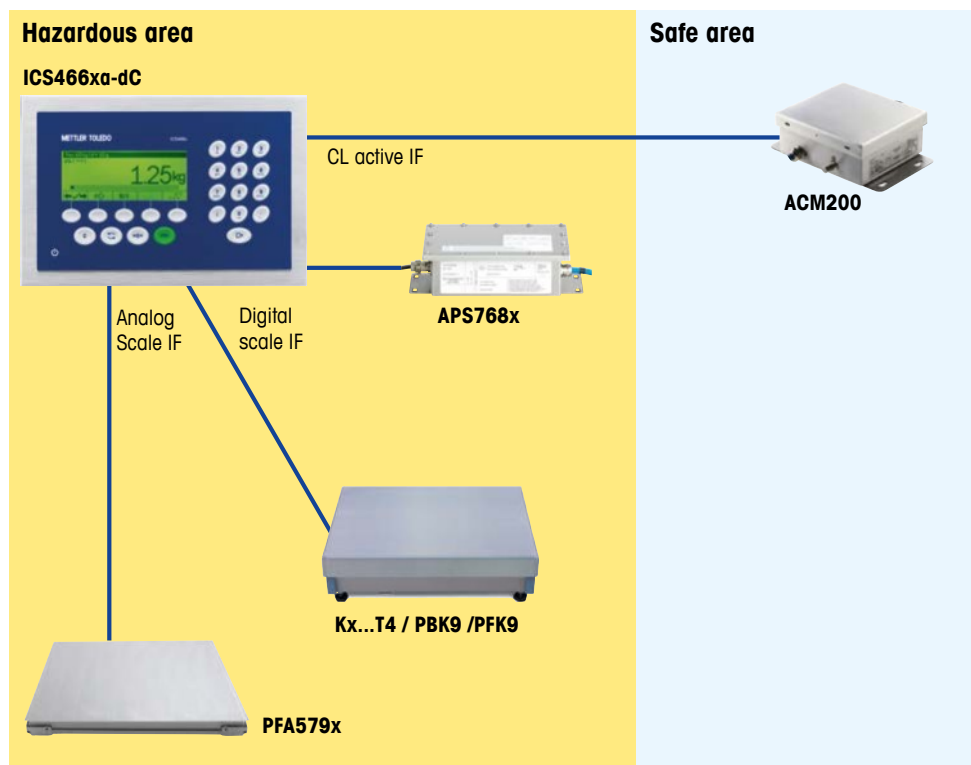
**METTLER TOLEDO**

## 1. Standard Configuration

**Hazardous area**

**ICS466xa**

Analog
Scale IF

**APS768x**

**PBA430x**

| Connection | Configuration | max Distance |
|---|---|---|
| ICS466x - APS768x | See Configuration 1, 2 | 50 m |
| ICS466x - ACM200 | See Configuration 2 | 300 m |
| ICS466x - Analog platform | See Configuration 1, 2 | 122 m |
| ICS466x - Digital platform | See Configuration 2 | 20 m |

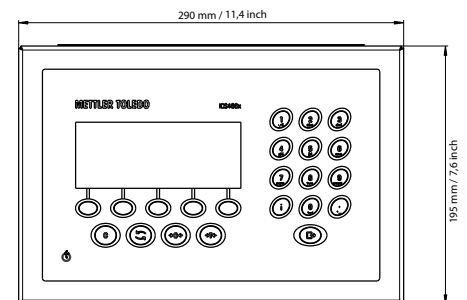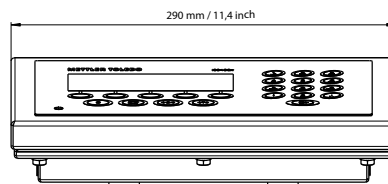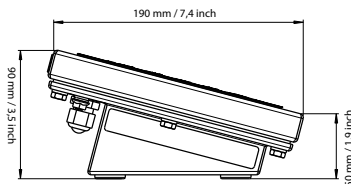## 2. Configuration with communication in the safe area

**Hazardous area**

**Safe area**

**ICS466xa-dC**

CL active IF

**ACM200**

Analog
Scale IF

Digital
scale IF

**APS768x**

**Kx...T4 / PBK9 /PFK9**

**PFA579x**

# Technical data terminal

| Parameter | ICS466x |
|---|---|
| Type | Stainless Steel (AISI304) |
| IP | IP65 |
| Display | LCD liquid crystal graphical display with colored backlight |
| Character height | Default layout mode = 25 mm / 3-line info mode = 15 mm |
| Keypad | Tactile-touch membrane keypad (PET) Scratch-resistant material |
| Keys | Alphanumeric entry, Softkeys, Function keys |
| Weight | 2.8 kg / 6.1 lb |
| Mains connection | Via APS768x-120 V resp. APS768x-230 V |
| Temperature range | -10°C …+40°C |
| Humidity | 85% |
| Data interfaces | 1x Standard RS232-IS<br>1 x Optional communication interface (CL active or CL passive) |
| Connectable platforms | One scale interface is built-in, the second is optional<br>2 scales can be connected (one analog and one digital scale, two digital scales)<br>All analog, Kx…T4, PBK9 and PFK9 platforms which are approved for zone 1/21, Div1 can be connected to the terminal |
| Analoge scale connection | Max. Resolution:<br>OIML: 10000e Class III<br>NTEP: 10000e Class III<br>Impedance: 80 – 3000 Ω, Excitation: 3,3 V, Sensitivity: up to 3 mV/V, Min. verification interval: 0,26 µV/e |
| Digital scale connection | Max.Resolution:<br>OIML: 100000e Class II, 10000e Class III<br>NTEP: 32000e Class II, 10000e Class III |
| Approvals | **ATEX/IECEx:**<br>II 2G Ex ib IIC T4 Gb, −10 °C … +40 °C<br>II 2D Ex ib IIIC T60°C Db<br>IP65<br><br>**FM:**<br>IS Class I, II, III; Division 1;<br>Groups A, B, C, D, E, F, G; T4; Ta = 40 °C, IP65, NEMA, Type 4<br>AEx ib IIC T4; IP65, Type 4<br><br>**Weight and Measures:** OIML, NTEP |
| Application /Feature | Basic weighing<br>Date & Time and Labelprinting<br>Alibi Memory, User Prompting<br>Checkweighing and Totalizing<br>Data storage up to 100 articles<br>Manual Filling |

# Specifications



190 mm / 7,4 inch    90 mm / 3.5 inch    50 mm / 1,9 inch

290 mm / 11,4 inch

290 mm / 11,4 inch    195 mm / 7,6 inch

# Accessories

| Articel Number | Designation | Description |
|---|---|---|
| **Interfaces** | | |
| 30076833 | ICS466x digital scale IF kit | To connect a digital scale. E.g. PBK9/PFK9 |
| 30076831 | ICS466x active CL IF kit | For communication into the safe area via communication module |
| 30076830 | ICS466x passive CL IF kit | To connect a second digital scale. E.g. PBK9/PFK9 |
| **Stands** | | |
| 72198702 | Height 330 mm / 1.3 ft | For creating a column version of the ICS4_6x-Series, stainless steel |
| 72198703 | Height 660 mm / 2.6 ft | |
| 22015188 | Column adapter | Retrofit set for stands/brackets with single hole mounting method (M8 thread) |
| 22026682 | ICS466x column kit K…x-T4 | For mounting the ICS4_6x-Series on a column, stainless steel Consisting of<br>• Terminal adapter<br>• 330mm column<br>• Adapter for KA weighing platforms<br>• Adapter for KB / PBK9 B weighing platforms |
| 22026683 | ICS466x compact scale kit K…x-T4 | For creating a combi bench version of the ICS4_6x-Series, stainless steel Consisting of<br>• Connecting bracket<br>• Adapter for KA/PBK9 A and AB weighing platforms<br>• Adapter for KB / PBK9 B weighing platforms |
| 30076832 | ICS466x bracket kit | For mounting the terminal in front of a weighing platform |
| 504132 | Floor stand, height 1000 mm / 3.3 ft, stainless steel | Floor stand for free installation of the weighing terminal. Includes mounting hardware for screwing to the floor, stainless steel |
| 503701 | Stand base, stainless steel | For movable installation of the floor stand, stainless steel |
| 22014833 | Wall bracket, stainless steel | For mounting the weighing terminal to the wall, stainless steel |
| 504128 | Bench stand, stainless steel | For mounting the weighing terminal to the bench weighing platforms 600 x 800 mm, stainless |
| 22012196 | Retainer, stainless steel | For mounting on the shaft of the PTA459 pallet scale, stainless steel |
| **Sealing** | | |
| 30076829 | ICS466x sealing kit | For use in approved weiging mode |
| **Power Supply** | | |
| 22026727 | APS768x-230 V | Power Module of weighing system |
| 22026723 | APS768x-120 V | Power Module of weighing system |
| **Communication Module** | | |
| 22026695 | ACM200-AC | For communication into the safe area |
| 22026692 | ACM200-DC | For communication into the safe area |

**METTLER TOLEDO** Service

ISO 14001 certified   ISO 9001 certified