6 Technical data

Display Keypad Interfaces Symbol inscription. Membrane keypad, with tactile feedback, 18 mm key spacing 4-line, LCD dot matrix display, character height 12 mm.

See ID5sx interface description

Preset tare Taring At a keystroke, up to maximum capacity, by subtraction

multi-interval scales, dependent on national certification regula-With single-interval scales, over the entire weighing range. With

tions. 25 fixed tare memories.

DeltaTrac with optical markers for target weight and plus/minus toler-For the display of dynamic measured values in analog form,

ances. 25 DeltaTrac fixed value memories

Gross select Display of the gross weight at a keystroke

Automatic and manual

Zeroing

Unit select Switchable at a keystroke to the following weight units: kg, g, lb,

oz, ozt, dwt.

Animal weighing Selectable cycle time, 3 settings.

Stability detector Choice of 4 settings, with movement indicator

Vibration adapter Weighing process adapter Matches the scale to the weighing sample. Choice of 3 settings. Matches the scale to the ambient conditions. Choice of 3

Test key For display of the identification code and for an automatic check

on the measurement accuracy (automatic calibration

Date/time Quartz crystal controlled, 12- or 24-hour display, automatic calendar function, fail-safe

Data buffering memories, date and time Fail safe storage for fixed tare memories, DeltaTrac fixed value

Housing Stainless steel housing

Type of protection Bench version ID5sx IP65

Built-in version ID5sx-E Front panel IP65, rear IP20.

Wiring/data line Cables for intrinsically safe circuits, paired, to national

Power supply Via GD13x power supply unit

Power consumption $U_0 = 8 \text{ V DC}$, $I_k = 136 \text{ mA}$, $P_{\text{max}} = 0.54 \text{ W}$

Admissible operating -20°C ... +40°C

temperature Bench version ID5sx 3.6 kg 3.8 kg

Weight

Dimensions

See MMRx – ID5sx guide for installers

Built-in version ID5sx-E

ယ **Operation**

Documentation

The following documentation is supplied with the ID5sx weighing terminal:

- ID5sx operating instructions
- ID5 operating instructions
- ID5 short form operating instructions
- Declaration of conformity
- MMRx ID5sx guide for installers
- Operating instructions Pac application (only with ID5sx with Pac software)
- Short form operating instructions Pac application (not with all Pac applications)
- ID5sx interface description
- Option 089 operating instructions

terminal Operation at the explosion-proof ID5sx weighing terminal is the same as for the ID5 weighing

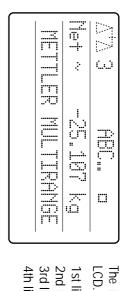
weighing terminal which differs from that in the operating instructions of the ID5 (702818) The operating instructions of the ID5sx contain all information for the explosion-proof ID5sx

The ID5sx and ID5 weighing terminals

The two weighing terminals differ by the following points:

•		
	ID5sx	ID5
Display	4 lines, LCD	2 lines, 7-segment display
Contrast adjustment	yes	no
DeltaTrac	shown in lines 3 and 4	shown in auxiliary display
Power switch on terminal	no	yes
Power supply	via GD13x power supply unit	power cable
Weighing platform connection	via GD13x power supply unit	plug-in
Multiscale connection	standard equipment	retrofittable GD31 multiplexer
Pac	installed in the factory	retrofittable
Interface connections	standard equipment	retrofittable
Printer connection	via GD15x interface	GD46 printer retrofittable
Adapt mode	no	yes
Putting into operation	only following guide for installers	as described in Ol

4 Display



The ID5sx weighing terminal has a 4-line

2nd line 3rd line 1st line System messages and entries Weight value with features Symbols

4th line

Reserved for Pac applications

Meaning of the symbols in the 1st line

Scale No. 1, 2, 3

Display command active

ABC.. Alphanumeric entry active

dentification of the 2nd weight unit

Identification of the weight value

Net Net value

Movement indicator

12.345 Weight value, max. 9 places incl. decimal point and sign

Positional marking with scales certified to OIML class II with e = 10 d

Weight unit, possible units: kg, lb, oz, ozt, dwt, g

Underload display

סתתחה Overload display

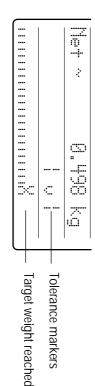
No weight value available

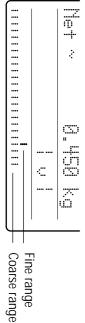
Meaning of the symbols in the 3rd line

Cursor, appears with user entries

METTLER DeltaTrac

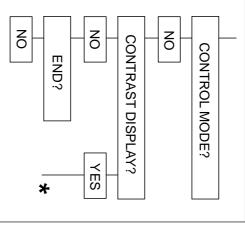
With ID5sx the DeltaTrac is shown as follows:



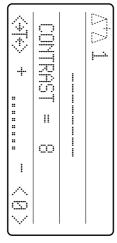


5 Master mode

(cf. p 3.7 of the ID5 operating instructions) the ID5sx, the block CONTRAST DISPLAY? appears in place of the Master mode block LIST The contrast of the ID5sx weighing terminal display can be adjusted in the Master mode. With



- Select the block CONTRAST DISPLAY in the Master mode with ←
- appears in the display A window for adjustment of the contrast



Higher contrast display

 Press the tare key, the displayed contrast value is increased by 1.

Lower contrast display

- Press the numeric key "0", the displayed contrast value is decreased by 1.
- Default setting:
- Possible values: 4 ... 13

Notes

ω

Cautionary notes





- The ID5sx weighing terminal may be installed only by the authorized METTLER TOLEDO customer service. National installation regulations and the MMRx ID5sx guide for installers must be complied with.
- The ID5sx weighing terminal may be opened only by the authorized METTLER TOLEDO customer service or by an electrician employed by the end user. This particularly applies to the subsequent attachment of several scales and the attachment of the serial interfaces or the digital inputs and outputs.
- Service work, repairs and system expansions may be undertaken only by authorized METTLER TOLEDO personnel.
- No changes whatsoever may be made to the instrument. These would result in loss of the Ex approval and to the forfeit of all warranty and product liability claims.
- Before putting into operation for the first time and at least every 3 years, the explosion-proof weighing system must be checked.
- Comply with the regulations governing electrical systems in hazardous areas
- Read through these operating instructions before putting the terminal into operation.
- Protective covers of other weighing terminals must never be used
- The serial interfaces may be operated only in combination with the GD15x interface.
 Only this will assure the separation intrinsically safe nonintrinsically safe.
- Only intrinsically safe equipment with the classification EEx ib IIC T6 may be attached to the digital inputs/outputs.

2 System overview

The MMRx weighing system is suitable for use in the hazardous areas of zones 1, 2 and 11. It comprises the following components:

ID5sx weighing terminal

The ID5sx weighing terminal is available as a bench version or as a version for installation in a switch cabinet. The appropriate Pac software matches the ID5sx to the desired application. Up to 3 weighing platforms can be attached to the ID5sx weighing terminal, each via its own separate power supply unit. In addition, up to 2 GD15x interfaces can be attached. The ID5sx has 3 digital inputs and 6 digital outputs, which can be controlled using the appropriate Pac software.

Type of protection: EEx ib IIC T6

K...x weighing platforms

Weighing platforms for various maximum capacities and readabilities, fitted with an explosion-proof K15x or K32x precision measuring cell.

Type of protection: EEx ib q IIC T6

GD13x power supply unit

Power supply for the intrinsically safe supply of the ID5sx weighing terminal and measuring cell.

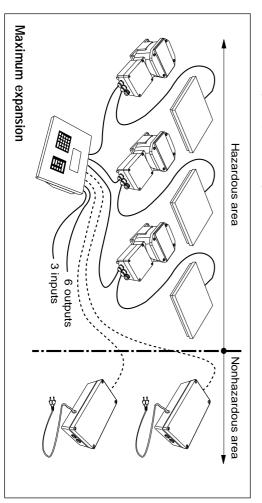
Type of protection:: EEx ed [ib] IIC T6

GD15x interface

Bidirectional data interface with RS232 and CL connection. Barrier for noninteracting separation of the devices between the nonhazardous and hazardous areas.

Type of protection: [EEx] ib IIC

The GD15x may be operated only in the nonhazardous area.



all stainless stee

504128

7 Optional equipment	
	Order No.
Cable For intrinsically safe circuits Ex-i, $3 \times 2 \times 0.75 \text{ mm}^2$, paired, shielded 100 m	504638
Cable for multiscale connection Suitable for intrinsically safe circuits, length 5 m	504668
Wire end ferrules H 0.75/13 with plastic collar, bag of 100	504639
Grounding cable gland With grounding sleeve and sealing ferrule, pack of 6	504640
Wall bracket For fastening the ID5sx weighing terminal to the wall, incl. fastening material black, plastic coated - all stainless steel	504129 504130
Floor stand For free standing ID5sx weighing terminal, incl. fastening material for screwing to the floor - black, plastic coated - all stainless steel	504131 504132
Stand base for flexible installation of the floor stand - black, plastic coated - all stainless steel	503700 503701
Pillar support For fastening the weighing terminal to the bench stand for KB or KC weighing platforms - black, plastic coated	504127

Mettler-Toledo (Albstadt) GmbH, D-72458 Albstadt, Germany, Tel. (07431) 14-0, Fax (07431) 14-232

```
A Mettler-Toledo Ges.m.b.H., 1100 Wien, Tel. (01) 604 19 80, Fax (01) 604 28 80 AUS Mettler-Toledo Ltd., Victoria 3207, Tel. (3) 646 45 51, Fax (3) 645 39 35 M.V. Mettler-Toledo (Schweiz) AG, 8606 Greifensee, Tel. (01) 944 45 45, Fax (01) 944 45 10 CM Mettler-Toledo (Schweiz) AG, 8606 Greifensee, Tel. (01) 940 45 45, Fax (01) 944 45 10 CM Mettler-Toledo GmbH, 35353 Giessen 11, Tel. (0641) 507-0, Fax (0641) 529 51 DK Mettler-Toledo AJS, 2100 Copenhagen Ø, Tel. (21) 470 3932, Fax (21) 470 3351 Mettler-Toledo S.A.E., 08038 Barcelona, Tel. (93) 223 22 22, Fax (93) 223 02 71 FM Mettler-Toledo S.A.E., 08038 Barcelona, Tel. (93) 273 22 22, Fax (93) 223 02 71 Mettler-Toledo S.A., 78220 Viroflay, Tel. (1) 30 97 17 17, Fax (1) 30 97 16 16 Mettler-Toledo S.A., 20026 Novate Milanese, Tel. (02) 3332.1, Fax (02) 35 62 973 Mettler-Toledo K.K., Takrarzuka 665, Tel. 797 74 2406, Fax 797 74 2641 Mettler-Toledo AJS, 1008 Oslo 10, Tel. (22) 30 44 90, Fax (22) 32 70 02 Mettler-Toledo B.V., 4000 HA Tiel, Tel. (03440)11311*, Fax (03440) 20530 SM Mettler-Toledo AB, 120 08 Stockholm, Tel. (08) 702 50 00, Fax (8) 642 45 62 SGP Mettler-Toledo (Thailand), Bangkok 10310, Tel. 719 64 80-87, Fax 709 64 79 Gas Mettler-Toledo Inc., Worthington, Ohio 43085, Tel. (614) 438-4511, Fax (614) 438-4755 USA Mettler-Toledo Inc., Hightstown, NJ 08520-0071, Tel. (609) 448-3000, Fax (609) 586-5451 Toledo Inc., Hightstown, NJ 08520-0071, Tel. (609) 448-3000, Fax (614) 438-4755 Mettler-Toledo Inc., Hightstown, NJ 08520-0071, Tel. (609) 448-3000, Fax (614) 438-4755 Mettler-Toledo Inc., Hightstown, NJ 08520-0071, Tel. (609) 448-3000, Fax (614) 438-4755 Mettler-Toledo Inc., Hightstown, NJ 08520-0071, Tel. (609) 448-3000, Fax (614) 438-4755 Mettler-Toledo Inc., Hightstown, NJ 08520-0071, Tel. (609) 448-3000, Fax (614) 438-4755 Mettler-Toledo Inc., Hightstown, NJ 08520-0071, Tel. (609) 448-3000, Fax (614) 438-4755 Mettler-Toledo Inc., Hightstown, NJ 08520-0071, Tel. (609) 448-3000, Fax (614) 438-4755 Mettler-Toledo Inc., Hightstown, NJ 08520-0071, Tel. (609) 448
```

Subject to technical changes © 01/97 Mettler-Toledo (Albstadt) GmbH Printed in Germany 506474B

Operating instructions

METTLER TOLEDO MultiRange ID5sx weighing terminal



