Professional Solutions for Hazardous Areas



Take control of your individual requirements with the ID7sx – intrinsically safe, certifiable, rugged. The integrated software pacs of the ID7sx terminal provide you with a system solution that adapts to the challenges of a harsh production environment, whilst the serial interfaces ensure a smooth data flow. A range of different scale bases with load capacities up to 12 metric tons,

and a certifiable readability of up to 1 gram, allow powerful configurations for the hazardous area zones of 1 and 21.

METTLER TOLEDO technology – ensures the highest security and precision for your production process.







Νεύτων Τεχνολογίες ΑΒΕΕ Γέρακα 113,Τ.Θ. 67934 15344 Γέρακας Τηλ: 210 6654544 Fax: 210 6654545 marketing@netton.gr www.netton.gr

Tough enough for harsh environments, sensitive enough to weigh and measure

- Meets ATEX Guidelines 94/9/EG for hazardous areas
- Performance through flexible application specific software pacs
- Backlit LCD display with graphics capability for efficient operation
- Expandable - make it grow with your needs by adding modules
 - Withstands harsh conditions thanks to IP65/66 protection



To see and be seen – fast and unmistakably clear, the backlit LCD display shows you the result of the weighing process. With a maximum character height of 25mm, your results are instantly recognisable. Scratch-resistant safety glass ensures that clarity is retained for years.

Applications made easy

Every weighing task has its own unique requirements and calls for special knowledge. Allow yourself to profit with the help of applicationspecific software pacs.

Strong functions

Naturally, general weighing functions are only the beginning. Built-in extras such as automatic taring, fixed-value memory, test function, DeltaTrac, date/time or product identification data simplify and perfect your weighing tasks for you - even when you need to work with 3 interconnected scales.

1 Basic housing design – many application possibilities

The functional housing design allows the weighing terminal to be used as a table, wall or built-in unit. With the IP66 (water jets) type of protection, the stainless steel housing can be easily and thoroughly cleaned, no matter the application.

Very easy to operate

The rugged membrane keypad has a smooth surface allows easy data entry. This, along with the clear structuring of the functions, ensures the device is user-friendly.

Interfaces for secure connections

The ID7sx reliably communicates with peripheral devices in nonhazardous areas via the data interfaces and power supply unit PSU/...Ex already installed in the basic equipment. With clear dialogue capability, the device is retrofittable for up to 2 additional data interfaces for connecting to Ex-compatible barcode reader equipment, for example.

Proving its flexibility, the ID7sx also allows you to easily incorporate an I/O interface or a memory card.







Connection to the ideal scale

Table and bench scalesWeighing ranges from3kg/0.1g to 300kg/20gClass II and III certifiable witha resolution of up to 32000verification scale intervals or3 x 3000e multi-intervals.

Pallet scales

Weighing ranges from 600kg/100g to 3000kg/ 500g. Class III certifiable with a resolution of 6000 verifica-

tion scale intervals.



Low profile scales

Weighing ranges from 300kg/50g to 1500kg/ 500g. Class III certifiable with a resolution of 6000 verification scale intervals. Overhand pass-through height 35mm.



Floor scales

Weighing ranges from 300kg/20g to 12 metric tons/2kg. Class II and III certifiable with a resolution of up to 7500 verification scale intervals or 3 x 3000e multi-intervals.



Floor scales with raisable load plate

Weighing ranges from 1500kg/200g to 3000kg/ 500kg. Class III certifiable with a max. resolution of 7500 verification scale intervals or 3 x 3000e multi-intervals.



Flexible container construction with load cells and system solution AWUx



Ringmount[™] weigh modules

Hermetically sealed and extremely flexible. The RWM2x weighing cells and 0970 RingWeigh modules are manufactured from stainless steel, which makes them ideal for use in wet, corrosive environments.

The wide product range offers multi-faceted solutions for tank, silo or special weighing. In connection with the AWUx system solution and the ID7sx you will always get the most precise results during the harsh production workday.





Installation example for horizontal tank/container, with 4 load mounts Installation example for weighing container round construction type with 3 load mounts

Technical data for Application Terminal ID7sx

Housing/Environmental conditions

Table and wall device

Construction	Desktop		
Built-in device			
Construction	Desktop for installation in front panel		
Material	Entirely chrome-nickel steel DIN X5 CrNi1810		
Type of protection	IP65/66: protected against dust and water jets		
Type of protection:			
- CENELEC	II 2G EEx ib IIC T4		
	-10°C < Ta < +40°C II 2D IP65 T55°C		
- FM	Class I, II, III DIV 1 Group: A, B, C, D, E, F, G		
Certification	D93-09-108		
	040° C for accuracy class II, s - 10+40° C for accuracy class III		
For dimensions of all ID7sx housing types see dimension diagrams.			

Display and operation

Display			
Display size	Display field 132 x 39 mm, 240 x 64 pixels		
Technology	Backlit LCD with graphics capability		
Display data	Weighing data, identification data, plaintext information, graphic information, inscription of the function keys F1F6.		
Character height	Max. 25 mm		
Display cover	Scratch-resistant, tempered safety glass		
Keyboard			
Technology	Action-point membrane keypad with percep- tible lift of key, audible acknowledgment		
Surface	Closed, smooth surface of heavy duty polyester, raised, embossed buttons		
Inscription/ Key design	Scratch-resistant text/symbol inscription, important keys enlarged.		
Key functions	 4 keys AD for identification data 6 function keys F1F6, with function change and information keys 4 weighing function keys Numerical entry pad 		
Alphanumeric entry	With keys F1F6, operator controlled selection		

Basic functions

Weighing functions					
Tare compen- sation	Subtractive, at the touch of a key				
Automatic taring	Automatic taring, with cut-off switch				
Tare preset	 Via keyboard or interface 999 fixed tare memory for frequently used tare values 				
Tare deduction	Tare addition, tare multiplication, intermediate tare				
Gross select	Displays gross weight at the touch of a key				
Zero set	Automatic or manual				
Unit switching	Switchable to the following weight units at the touch of a key: kg, g, lb, oz, ozt, dwt				
In-motion weighing	For unstable weighing samples, e.g. animal weighing, selectable cycle time and auto- matic printout				
Stability detector	Adjustable to 4 levels, with movement indicator				
Weighing process adapter	Adjusts the scale to the weighing process, 3 levels selectable				
Vibration adapter	Cushions the effect of vibrations, 3 levels selectable				

Test key	 Identcode display (certification seal) Tests measurement accuracy (internal self-calibration) of Kx scale bases 				
Control mode	Weight value display with increased resolution				
Set points	4 independent, freely definable set points for Base, FormXP and Data ID7sx (only with 8 I/O-ID7sx interface)				
Scale connection					
Standard	1 IDNet connection				
Expansion	Expandable to max. 3 scale connections (accessories)				
Scale models	MMRx scale bases Dx / Kx Load mounts with system solution AWUx				
Display functions Switch-on text	20-space text, completely configurable				
Tare indicator	NET illuminates when tare weight is saved				
DeltaTrac	Analog display of dynamic measurement values, with visual marks for target value and plus/minus tolerances. 999 DeltaTrac fixed value memory				
Date/time	12- or 24-hour display, automatic calendar function, European or USA format				
Information functions	Recall possibility of all current weighing data, memory and identification data				
Language	All texts for display and data output selectable in several languages				
Identification dat					
Number/Digits Input	4 alphanumeric values, max. 30 positions Via membrane keypad or interface				
Designation	Keys AD with variable text field				
Permanent texts	999 fixed value memory for frequently used text and identification data, 20 positions				
Application pacs:					
Interfaces					
Serial Interface (Type	Connection C1 CL (standard)				
Operating mode	Dialog or print mode for communication with peripheral devices in the nonhazardous area				
Serial Interface Connections C2–C3 Types CL or RS232 (accessories)					
Operating mode	Dialog capability, allowing connection to devices in the hazardous area				
Expansion	Max. 2				
I/O Interface					
Туре	Discrete I/O interface with 8 inputs/8 outputs (accessories)				
Operating mode	Direct or indirect (via switching amplifier) Control of keys, cut-off switches or SPS controls in the nonhazardous area				
Number	Max. 1				
Memory module Type	Nonvolatile mass storage, 12 MB flash (acc.)				
Operating mode	Direct or indirect (via switching amplifier) Control of keys, cut-off switches or SPS controls in the nonhazardous area				
Number	Max. 1				
General data					
Certifications an	Certifications and standards				
Serimounons un	u oranadi uo				

EU conformity

Certification

compatibility

IP type of protection

Ex certification



DO

Target weight reached, fast and precise.

Automatic and self-teaching, the ID7sx Dos ensures reliably safe industrial filling. Filters adaptable to every condition, along with separate weight determination and evaluation, also guarantees reliability.



Learn mode

After the desired target weight is entered, the cut-off points are automatically determined by the ID7sx Dos. As a result, dispensing is exact from the beginning, preventing a loss of time and material.

■ Fully automatic dispensing

When you advance from "manual operation" to the fully automatic dispensing system with ID7sx Dos, simply connect the coarse and fine stream valve to the 8 I/O-ID7sx interface - and you're ready to go.

Secure filling

The ID7sx Dos constantly controls material flow with the help of dispensing monitoring. Many other functions, such as post-dispensing correction, correction threshold, acknowledgement, etc., ensure the safety and reliability of the dispensing system controlled by the ID7sx Dos.

Adaptation to dispensing tasks

Connectable functions such as scale switchover, remaining quantity and filling process controls, materials equilibrium or manual correction also keep you ready for exceptional cases.



ID7sx FormXP increases the efficiency of your work.

Formulas can be quickly and easily managed – with safety – and then put into action. ID7sx FormXP – your simple link to a multirange weighing solution! The unit's ability to connect to a number of METTLER TOLEDO scales with different readabilities and weighing ranges means that, whether you work in the harsh industrial environment or in a laboratory, formula software FormXP is the ideal solution software.

Compounds with formulas on file

Whether you weigh a formula in one container, pour each individual component into a separate container or prepare a number of batches – FormXP software has already factored in application- and industry-specific characteristics.









Horizontal formula weighing Weighing each component into a separate container

Batch formula weighing Multiple weighings of separate components into individual containers

Trouble-free interconnection of processes

From recording raw materials to processing formulas - FormXP ensures user-friendly operation. Comprehensive, linked databases also offer the opportunity to supply information such as work instructions, quantity and tolerance information during the formula process.

Simple management of your data

Edit message, component and formula data with ease using "FormtoolIXP" PC software. A simple click of the mouse and you're connected directly to the ID7sx from your PC.



Small cost, large benefit...



Comfortable operation allows computer-assisted control of several weighing stations at the same time - and without the need for costly programming.

=Param. Industrial data processing made easy.



Reliably precise data are the be-all and end-all of every modern industrial process that aims to be efficient and profitable. Together with the ID7sx data application software, the ID7sx terminal registers and records the desired relevant data in conjunction with your host computer.

Technical data for power supply units

Model	PSU/Ex	PSUx/230 V	PSUx/120 V
Power supply	100 - 240 V AC, 50/60 Hz	230 V AC, 50 Hz	120 V AC, 60 Hz
IP type of protection	IP65	IP65	IP65
Temperature range	-10°C + 40°C	-10°C + 40°C	-10°C + 40°C
Type of protection			
– CENELEC	II (2) G, D [EEx ib] IIC	II 2 G, D EEx em [ib] IIC T4	_
– FM	AIS Class I, II, III DIV 1 Group A-G	_	Class I, II, III DIV 1 Group A-G
– CSA	_	_	Class I, II, III DIV 1 Group A-G
Power supply cable (m)	2,4 (M16 x 1,5)	1,9 (M16 x 1,5)	– (1/2' NPT)
Cable for ID7sx (m)	10, max. 80	5, max. 50	5, max. 50
Dimensions [w x d x h] (mm)	426 x 268 x 117	278 x 120 x 85	266 x 120 x 85
Scale slots	3, max. connections: 3	-	_
Interface slots	3, max. connections: 3	_	_

ö

Dimension diagram (dimensions in mm)

ID7sx bench model



ID7sx wall model



ID7sx panel mount model



Sales and Service:





PSUx/230 V

PSUx/120 V

Accessories Application Terminal ID7sx

Scale connections		Order no.		
IDNet-ID7sx	Scale connection for IDNet scales	22 008 443		
Serial interfaces		~~~~		
CL20mA-ID7sx RS232-ID7sx	CL20mA interface RS232 interface	22 008 444 22 008 445		
Digital I/O interfa				
8 I/O-ID7sx	8 input / 8 output interface	22 008 446		
Memory module22 008Memory ID7sx22 008Memory for approx. 700,000 metrologically relevant records. Replaces the alibi printer with certifiable applications.				
Wall bracket				
For attaching the application terminal to the wall. Complete with mounting screws.				
– stainless steel design		00 504 130		
Stand base				
For flexible installa – stainless steel de	00 503 701			
Pillar support				
For mounting the application terminal on the bench stand for KB and KCC scale bases.				
- stainless steel de	00 504 128			



