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Czech Republic	Mettler-Toledo, spol, s.r.o., CZ-10000 Praha 10
Denmark	Tel. 272 123 150, Fax 272 123 170 Mettler-Toledo A/S, DK-2600 Glostrup
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Germany	Mettler-Toledo GmbH, D-35353 Giessen Tel. (0641) 50 70, Fax (0641) 52 951
Hong Kong	Mettler-Toledo (HK) Ltd., Kowloon Tel. (852) 2744 1221, Fax (852) 2744 6878
Hungary	Mettler-Toledo, Kft, H-1173 Budapest Tel. (01) 288 40 40, Fax (01) 288 40 50
India	Mettler-Toledo India Pvt Ltd, Mumbai 400 072 Tel. (22) 2803 1111, Fax (22) 2857 50 71
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	Tel. (55) 5547 5700, Fax (55) 5547 2128
Netherlands	Mettler-Toledo B.V., NL-4000 HA Tiel Tel. (0344) 638 363, Fax (0344) 638 390
Norway	Mettler-Toledo A/S, N-1008 Oslo Tel. 22 30 44 90, Fax 22 32 70 02
Poland	Mettler-Toledo, Sp. z o.o., PL-02-822 Warszawa Tel. (22) 545 06 80, Fax (22) 545 06 88
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Slovakia	Mettler-Toledo s.r.o., SK-831 03 Bratislava
Slovenia	Tel. (2) 4444 1220-2, Fax (2) 4444 1223 Mettler-Toledo, d.o.o., SI-1236 Trzin
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For more information

PC Application Terminal



Set sail for new horizons in your industrial weighing processes



Pioneering technology, flexible and fit for industry!

Here's how you benefit

- = Ergonomic workplace layout increases efficiency
- Provides the exact solution to your specific task
- Open interfaces, e.g. USB
- Leading software technologies
- Powerful, dependable, industrial quality
- All-round IP69k protection
- Suitable for all industries



HMI box

The human/machine interface (HMI) box is the interface to the user. The extremely clear TFT display can be read easily and distinctly from any angle, no matter how extreme. To protect it against knocks and water, the display is protected with industrial-grade safety glass. For even greater convenience, a touch-screen version is available as an option.

An unbeatable duo!

The ID30 PC application terminal comprises an elegantly slim flat screen and a separate computer. The two components are connected only by a single cable. This allows a highly flexible and ergonomic workplace design, free of troublesome cables.

ELO box

The electronics box contains all the weighing and PC technology. This is where instruments such as scales, printers, etc. or your inhouse network are connected. The ELO box can be located away from the actual workplace. The user display can be as far as five meters from the ELO box.



The working position you want – on bench or wall, always ergonomically tiltable.

One for all – a single design for use everywhere!

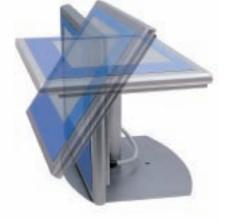
In new industrial plants, instruments are designed to be optimally suited to their use. If production or organizational procedures change, the weighing equipment also has to be modified. The powerful ID30 terminal provides the flexibility you need for weighing station layout with just one single design.

Combined with a range of stands and fastening elements, the ID30 can be mounted on a bench or wall, stand alone on the floor, or be built into a control cabinet.

Full attention to ergonomics! At the touch of a button, the HMI box

can be tilted to 6 different angles from the vertical in steps of 15°, to suit the individual working position. This ensures con-

venient operation and certain reading. Optional adapters, for example in conjunction with wall mounting, also allow horizontal swiveling.



All clear for individual software and limitless communication!

ScaleXPlorer standard application included

The ScaleXPlorer software is a universal weighing and service program for solving fundamental weighing tasks. This multilingual basis program not only provides a first weighing solution for customers, but also supports weightsand-measures inspectors and METTLER TOLEDO service technicians.

ScaleXPlorer also manages the alibi memory and verifies the reliability of authorized software components.

Additional features of ScaleXPlorer:

- DeltaTrac for dispensing, classifying, or check weighing
- Fixed-value memory for tare values, texts, DeltaTrac

Worldwide connectivity

Use of the latest Windows operating systems allows remote configuration and maintenance of your application on the ID30. Software updates and e-mail services are provided on the Internet.

Demanding solutions – easy implementation

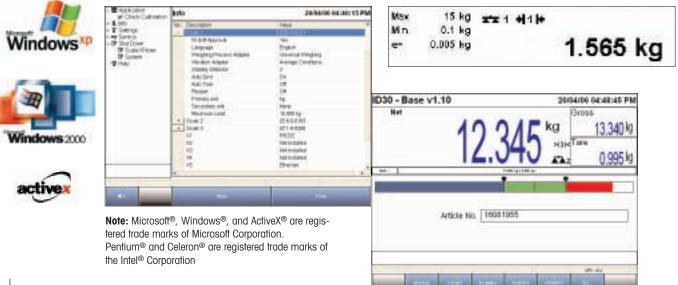
When an off-the-shelf application solution is no longer adequate, you can create your own. Microsoft ActiveX® technology is always available to provide software developers with an ideal tool for rapidly and efficiently implementing a tailored solution.

Irrespective of your development environment, you have easy dragand-drop access to a multitude of system and weighing functions.



Key information at a glance

All scale data and weight values are clearly displayed in a certifiable software window. This window is always visible adjacent to the current application, allowing constant monitoring of the data processed in the application.

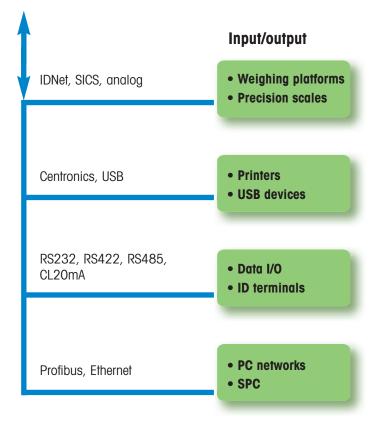


Data input



Barcode reader
Keypad

System integration





Scalable performance protects your investments

Modularity is the basic principle of ID30. This applies especially to electronic components such as the processor, RAM, display, etc., which can be selected based on performance and price to meet the specified requirements. If your requirements change over time, these components can be easily replaced with more powerful ones. This ensures the long-term value and functionality of your investment.

A large range of interfaces allows you to choose your own communications solution. The network interface integrates the ID30 homogeneously into your EDP landscape. Input and output devices can be connected using all the usual connection standards – connectivity unlimited!



Real-time core for time-critical control operations

The enhanced scale processor (ESP) contained in the ID30 can take over autonomous control of weight-dependent operations, i.e. independent of the PC side of the weighing terminal. A connected dispensing system still turns off correctly, even if the operating system has to handle another task just at that moment. This is especially beneficial in fast or automated processes where safety is paramount. In some cases, this functionality can even eliminate the need for connection to an SPC.

ID30 close up – the technical data.

General system

Basic functions

- Weighing functions: activation of most important functions of the connected scales and interfaces via keypad or software commands
- Weight determination: continuous gross/net/tare weight values with stability detection
- Autotare: automatic taring, with on/off switch
- Zero setting: automatic or manual
- Stability detection: adjustable in 4 steps
- Weighing process adapter: adapts the scale to the weighing process, adjustable in 3 steps
- Vibration adapter: damps the effect of vibrations, adjustable in 3 steps
- Restart function: for uninterruptible storage of zero point and tare
- Input/output: an input/output of signals via parallel I/O interface relay box 4 or relay box 8
- Alibi storage: All data relevant for calibration is stored on the local hard disk or on a network drive

Software

- Command library: Extensive list of software commands for easy use of scale and interface functions.
- Operating principle: Client-server principle, ActiveX® technology. Therefore supports practically all modern programming languages.
- Application program: ScaleXPlorer: Multilingual scale and service program for execution of all important scale functions and alibi storage. Numerous functions for service purposes (terminal and weighing platforms) as well as for self-diagnosis. Verification of certifiable software components and the alibi memory.

General data

- Power supply requirements: Voltage 100 ... 240 V AC, +10/-15%, 50/60 Hz Power consumption approx. 50 VA Power cable country-specific, length approx. 2.5m
- Packaging (L x W x H): HMI box (12,1"): carton, 550 x 440 x 370mm HMI box (17"): carton, 630 x 430 x 580mm ELO box: carton, 550 x 440 x 270mm
- Weight: HMI box (12.1"): gross approx. 8.8kg, net approx. 6.3kg
 HMI box (17"): gross approx. 14.6kg, net approx. 11.5kg
 ELO box: gross approx. 7kg, net approx. 4.5kg
- Documentation included with delivery: Installation and operating instructions

Housing/environmental conditions

- Material: chrome-nickel steel DIN X5 CrNi1810
- IP rating: IP69k (DIN 40050): protected against dust and water spray, suitable for high- or steam-pressure cleaning
- Admissible environmental temperature: In operation: -10 ... +40°C at certification class III, 0 ... +40°C at certification class II For storage: -25 ...+60°C Rel. air humidity: 20 ... 80%, non-condensing

Approvals and standards

- EU conformity: CE marking with declaration of conformity
- Certification: EU directives 90/384/EC; 93/68/EC; EN 45501; OIML R76
- Electrical safety: EU directives 73/23/EC; 93/68/EC; EN 60 950
- Electromagnetic compatibility: EU directives 89/336/EC; 92/31/EC; 93/68/EC; EN 50 081-1; EN 50 082-2



HMI box

Equipment

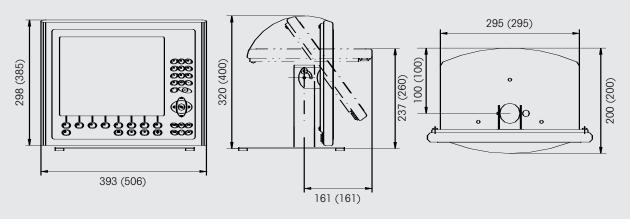
- Active TFT color graphics display
- Display cover of non-reflecting, scratch-resistant, hardened safety glass (USA and UK models: polycarbonate)
- Housing of chrome-nickel steel provides IP69k protection
- Action-point membrane keypad
- 1.5 m cable for connection of HMI box to ELO box
 2 additional USB interfaces
- Bench stand

The HMI box (with the above equipment) is available with five different displays:

HMI box 2:	12.1" display (approx. 246 x 184 mm), resolution 800 x 600 pixels
HMI box 3:	12.1" touch-screen display, (approx. 246 x 184 m), resolution 800 x 600 pixels
HMI box 4	12.1" touch-screen display, (approx. 246 x 184 m), resolution 1024 x 768 pixels (XGA)
HMI box 5	12.1" touch-screen display, (approx. 246 x 184 m), resolution 1024 x 768 pixels (XGA)
HMI box 6	17" touch-screen display (approx. 341 x 247 mm)., resolution 1280 x 1024 pixels (SXGA), separate power supply 100-240 V AC (50/60 Hz)

For connection to the ELO box, the HMI box can be ordered with either a 1.5 m, 2.5 m, or 5 m cable.

HMI box with bench/wall stand (HMI Box 12"(17"), (all dimensions in mm)



Keypad

- Technology: action-point membrane keypad with tactile keystroke
- Surface: enclosed, smooth surface of durable polyester, with non-slip, raised-embossed key markings
- Inscriptions: scratch-resistant, 3-color text/symbol inscriptions
- Key functions:
- Numeric keypad 0 ... 9, clear, enter, and space keys
 4 cursor keys, tab key
 8 function keys F1 ... F8 below the display
- Windows-specific keys (shift, Ctrl, Alt, Del, Esc, Windows key)
- 4 weighing-specific keys (zero, tare, tare preset, scale switchover)
- On/Off switch, Auto Adjust (only with 17" HMI box 6)
- Service life:
 - > 1 million keystrokes



ELO box

Standard equipment

(for other options see alternative equipment)

- Processor: ETX-CPU Ultra Low Power Intel Celeron P3T-400 MHz
- RAM: Memory module with 128 MB RAM
- Hard disk: 2.5", 60 GB
- Operating system: Microsoft Windows XP Professional (in the desired language version, see ordering information)
- Interfaces for communication with HMI box: 12.1": LVDS interface 17": VGA interface

Alternative equipment

(options for inclusion in the ELO box at the factory)

- Processor:
 - ETX-CPU Low Power Intel Celeron P3T-733 MHz - ETX-CPU Intel Pentium M 1.4 GHz
- RAM:
 - Memory module with 128 MB RAM
 - Memory module with 512 MB RAM
 - Memory module with 1 GB RAM (only with processor Pentium M)
- Operating system: Microsoft Windows 2000 Professional (in the desired language version, see Ordering Information)
- PCI expansion: Expansion board for a PCI card (only PCI cards that support PCI standard 2.1)
- Interfaces: For communication with the PC electronics (top row of connectors on the ELO box, interfaces X1 ... X5).

Up to 5 of the following interfaces can be built into the ELO box; the maximum number in each case is shown in parentheses.

Display interfaces	VGA module (1) To connect an additional monitor
Serial interfaces	CL20mA (3) RS232 (3) RS422/485, optoisolated (3) USB (1)
Parallel data interfaces	Centronics (1)
Network interfaces	Ethernet (1) 10/100 Base-T Twisted pair Wireless LAN 54 Mbps / 2.4 GHz / 802.11b / 802.11g

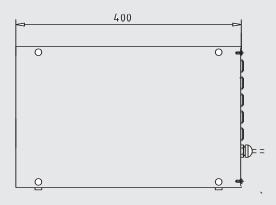
• Interfaces:

for communication with the weighing electronics (bottom row of connectors, interfaces X6 ... X10). Up to 5 of the following interfaces can be built into the ELO box; the maximum number in each case is shown in parentheses.

Scale interfaces	IDNet(3) Analog scale (2) SICS scale (3)
Serial interfaces	CL20mA (5) RS232 (5) RS422/485, optoisolated (5)
Digital input/ output interfaces	4 Input / 4 Output (2) 8 Input / 8 Output (8) connectable extern.



ELO box (all dimensions in mm)



ID30 Ordering Information

Note: When ordering a complete ID30 weighing system, the HMI box, ELO box, and operating system must also be ordered.

Designation HMI box (Human/machine interface box)	Part numbe
ID30 HMI box 2 Active TFT color graphics display, 12.1" display, resolution 800 x 600 pixels, membrane keypad, chrome-nickel steel housing, IP67k protection, 1.5 m connection cable to ELO box, 2 USB interfaces, bench stand	22 007 174
ID30 HMI box 3 Same as ID30 HMI box 2, but with touch screen	22 007 172
• ID30 HMI box 4 Same as ID30 HMI box 2, but with 1024 x 768 pixel resolution	22 005 580
ID30 HMI box 5 Same as ID30 HMI box 2, but with 1024 x 768 pixel resolution, and touch screen	22 005 58
• ID30 HMI box 6 Active TFT colour display, 17" display, resolution 1280 x 1024 pixels, membrane keypad, touch sc chrome-nickel steel housing, IP69k protection, 1.5 connection cable to ELO box, 2 USB interfaces, ber 100-240 V AC (50/60 Hz) power supply	ó m
Instead of 1.5 m connection cable: Connection cable HMI/ELO box 12.1"	
– 2.5 m	22 007 700
– 5 m	22 007 70

- Z.5 III	22 007 700
– 5 m	22 007 701
 Connection cable HMI/ELO box 17" 	
– 2.5 m	22 015 238
– 5 m	22 015 239

ELO box (Electronics box)

• ID30 ELO box 22 007 173 Chrome-nickel steel housing, IP67k protection, power supply 100-240V AC (50/60 Hz), LVDS interface for connection to HMI box, CPU Intel Mobile Pentium P3-400 MHz, 128 MB RAM, 40 GB hard disk

Microsoft Windows XP Professional operating system is included. The language version required should be specified according to the following list.

German	22 008 151
English	22 008 152
French	22 008 153
Dutch	22 008 154
Italian	22 008 155
Spanish	22 008 156
	English French Dutch Italian

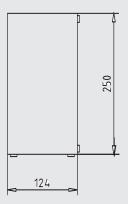
The following languages can be set in the multilingual version of Windows 2000: Arabic, Bulgarian, Chinese (simplified), Chinese (traditional), Croatian, Czech, Danish, Dutch, German, English, Estonian, Finnish, French, German, Greek, Hebrew, Hungarian, Italian, Japanese, Korean, Latvian, Lithuanian, Norwegian, Polish, Portuguese (Brazil), Portuguese (Portugal), Romanian, Russian, Slovakian, Slovenian, Spanish, Swedish, Thai, Turkish. For languages that we do not supply ex works, we recommend that you order the English version and set the required language before installing the device.

Notes on the scale connections

Up to 3 scales (of which up to 2 can be analog scales) can be connected to the ELO box. The scales can be combined in any manner desired, and several scales of one type can be used.

The following scale types can be used:

- IDNet scales:
 - All balances with IDNet interface
 - Load mounts with Point system solution
- Analog scales:
 - Analogue weighing platforms of types D...T, N...T
 - Spider
 - Load mounts of type RWM with analogue system solution
 - Other balances with 1-4 load cells (350 Ohm cells) or 1-12 cells (1000 Ohm cells), sensitivity: 0.4- 3 mV/V
- SICS scales:
 - Analytical and precision balances with RS232 serial interface
 - Industrial scales of type BBA/BBK



Designation

Part number

Optional electronics for installation in the ELO box

Processor

(instead of CPU Ultra Low Power Intel Celeron P3T-400 MHz)

è	ETX-CPU Low Power Intel Celeron P3T-733 MHz	22 015 414
•	ETX-CPU Intel Pentium M 1.4 GHz	22 017 706

RAM (instead of 128 MB RAM)

for P3T-400/733:	
 256 MB RAM memory module 	22 015 415
 512 MB RAM memory module 	22 015 416
for Pentium M:	
 256 MB RAM memory module 	22 017 707
 512 MB RAM memory module 	22 017 708
1 GB RAM memory module	22 017 709

Operating system

Microsoft Windows 2000 in the desired language version selected from the following deliverable versions:

- German	22 008 161
– English	22 008 162
- French	22 008 163
– Dutch	22 008 164
– Italian	22 008 165
– Spanish	22 008 166

The following languages can be set in the multilingual version of Windows 2000: Arabic, Bulgarian, Chinese (simplified), Chinese (traditional), Croatian, Czech, Danish, Dutch, German, English, Estonian, Finnish, French, German, Greek, Hebrew, Hungarian, Italian, Japanese, Korean, Latvian, Lithuanian, Norwegian, Polish, Portuguese (Brazil), Portuguese (Portugal), Romanian, Russian, Slovakian, Slovenian, Spanish, Swedish, Thai, Turkish. For languages that we do not supply ex works, we recommend that you order the English version and set the required language before installing the device.

PCI expansion

• Expansion board to take a PCI card (only PCI cards that support PCI standard 2.1) 22 007 721

Interfaces for communication with the PC electronics

•	Display interfaces VGA, for connection of an additional monitor	22 007 706
	17" VGA for connecting the 17" HMI box 6	22 015 242
٠	Serial interfaces	
	CL20mA	22 007 709
	RS232	22 007 710
	RS422/485, optoisolated	22 007 711
	USB	22 007 712
٠	Parallel interfaces	
	Centronics	22 007 714
٠	Network interfaces	
	Ethernet-10/100 Base-T twisted pair Wireless LAN 54 Mbps / 2.4 GHz /	22 007 715
	802.11b / 802.11g	22 011 646

Designation

Part number

Interfaces for communication with the weighing electronics

• Interfaces for connecting scales

Interface for connection of an IDNet scale	22 007 707
Interface for connection of an analog scale	22 007 708
Serial interfaces	
CL20mA	22 007 725
RS232	22 007 726
RS422/485, optoisolated	22 007 727
 Digital input/output interfaces 	
4-input/4-output	22 007 717

Accessories for subsequent installation in the ID30

Electrical accessories

Processor

FIOCESSOI	
ETX-CPU Ultra Low Power Intel Celeron P3T-400 N	
ETX-CPU Low Power Intel Celeron P3T-733 MHz	22 009 861
ETX-CPU Intel Pentium M1.4 GHz	22 017 715
RAM	
for P3T-400/733:	
128 MB RAM memory module	22 015 243
256 MB RAM memory module	22 015 244
512 MB RAM memory modul	22 015 245
for Pentium M:	
128 MB RAM memory module	22 017 716
256 MB RAM memory module	22 017 717
512 MB RAM memory module	22 017 718
1 GB RAM memory module	22 017 719
PCI expansion	
Expansion board to take a PCI card (only PCI card	ls
that support PCI standard 2.1)	22 007 630

GA46 printers

GA46 thermal printer for ID30, connection to RS232 interface, incl. 2.5 m cable	00 505 471
GA46 thermal printer for ID30, connection to RS232 interface, incl. 0.4 m cable	00 507 229
GA46-W thermal printer for ID30, with take-up device, connection for RS232 interface, incl. 2.5 m cable	00 505 799
GA46-W thermal printer for ID30, with take-up device, connection for RS232 interface, incl. 0.4 m cable	00 507 230
Adapter for mounting GA46/GA46-W thermal printer on floor stand of ID30	22 007 722
Protective cover for GA46 thermal printer	00 507 224

Interfaces Digital input/output interfaces July VGA for connection of an additional monitor 22 007 642 A-input/4-output 22 007 718 VGA cobie, 3 m, 9-pin, D-sub 00 206 8483 Connector plug, 19-pin, for relay box 4 00 504 461 VGA cobie, 3 m, 15-pin, D-sub 00 506 797 Connector plug, 19-pin, for relay box 4 00 504 461 VGA cobie, 3 m, 15-pin, D-sub 00 503 749 Connector plug, 19-pin, for relay box 4 00 504 461 VGA cobie, 3 m, 100, 70, 719 00 503 749 Relay box with 8 input/8 output for relay box 4 00 505 544 Connector plug, 7-pin 00 503 756 Relay box with 8 input/8 output for relay box 8 00 505 544 RS232 cobie DCE, 3 m 00 503 756 Constructed entirely from chrome-nickel steel 10 m othorse-relay box 8 00 505 544 RS232 cobie DCE, 3 m 00 504 476 Connector plug, 8-pin, 0 and 0 and 756 00 204 847 RS422/485 cobies 3 m, 6-pin, open end 22 007 731 Foreitaling modules and stands 20 007 731 RS422/485 cobies 3 m, 6-pin, open end 22 007 731 Horizontally and vertically switeling varial docter for 17 'HM box 22 007 731 RS422/485 cobies 3 m, 6-pin, open end <td< th=""><th>Designation</th><th>Part number</th><th>Designation</th><th>Part number</th></td<>	Designation	Part number	Designation	Part number
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