Date/time	Quartz-accurate, 12 or 24 hour clock, automatic calendar, Europe or USA format
Info functions	Recall capability for all current weighing data, stored data and identification data
Identification data	
Quantity/length	4 alphanumeric identifiers, 18 characters
Entry	On membrane keypad, external MFII keyboard or interface (e.g. barcode reader)
Naming	Keys A–D with variable text field
Preset text	999-place memory for frequently used text and identification data, each 20 characters
Application Pacs	see Accessories

Data interfaces

Interface connection COM1: RS232

Operating mode	- Dialog mode
	Operating mode for dialog-compatible DP devices, extensive command set for exchanging data with the scale, option to transfer software and data e.g. for software updates or data backup
	- Print mode
	Operating mode for the free formatting of external strip printers (GA46) and form printers
Barcode	Option to connect a barcoded reader with voltage supply
GA46	Option to connect GA46 printer
SICS scale	Option to connect scales, which support the METTLER TOLEDO SICS command set (precision scales, Viper scales, Spider scales)

Other interfaces

COM2–COM6	Expandable to max. 6 interfaces (Accessories)

Keyboard port

MFII connection	5-pin receptacle to connect a MFII PC keyboard (Accessories)

General data

Power supply

Voltage	ID7: 100 … 240 V, +10/-15%, 50/60 Hz
	ID7-24V:
	Externally powered 24 V, +20/-15% VDC
	Battery operated 24 V (21 … 28,8 VDC)
	Low discharge protection: below 21 VDC the instrument switches itself off
	Acoustic signal before switching off (21 … 22.5 VDC)
Power input	ID7: 60 VA approx.
	ID7-24V: 48 VA approx.
Power cable	ID7: Length 2.5 m
	ID7-24 V: Length 2.5 m

Approvals and standards (ID7 and ID7-24V)

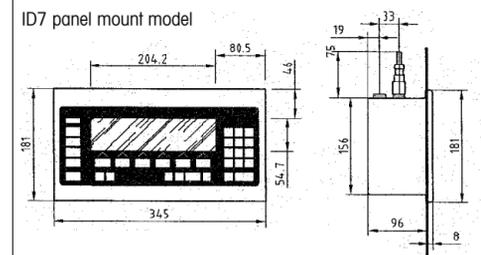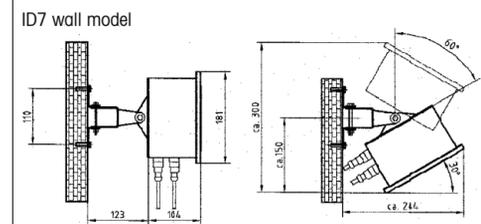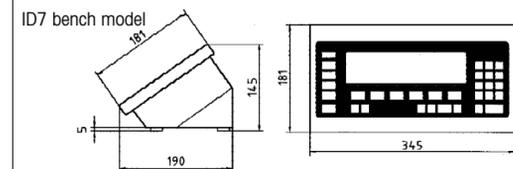|	
EC conformity	CE mark and conformity declaration
Certification	EC directive 90/384/EEC; 93/68/EEC; EN 45 501; OIML R76; NTEP
Elec. safety	EC directive 73/23/EEC; 93/68/EEC; EN 60 950, UL, CSA
EMC	EC directive 89/336/EEC; 92/31/EEC; 93/68/EEC; EN 50 081-1, EN 50 082-2, EN 61 000-3-2

Delivery information

Model	Order No.
ID7 bench model (with Base2000-ID7)	00 507 690
ID7 wall model (with Base2000-ID7)	00 507 685
ID7 panel mount model (with Base2000-ID7)	00 507 691
ID7-24V bench model (with Base2000-ID7)	22 006 790
ID7-24V wall model (with Base2000-ID7)	22 006 791
ID7-24V panel mount model (with Base2000-ID7)	22 006 792
Packaging	Carton, approx. 310 x 420 x 260 mm
Weight	Gross approx. 5 kg, net approx. 3.5 kg
Documentation	Full installation and operating instructions

Application Pacs
A selection of high performance Pacs are available for special weighing tasks:

Count2000-ID7	Counting, totaling	22 004 092
Form2000-ID7	Formulating, totaling	22 004 093
Data2000-ID7	Computer dialog mode	22 004 094
Sum2000-ID7	Totaling on 3 levels	22 004 095
Dos2000-ID7	Dispensing	22 004 096
Dos2000-R-ID7	Multi-component dispensing	22 004 097
Control2000-ID7	Verifying, classifying	22 004 098
Sys2000-ID7	Freely programmable	22 005 340
FormXP-ID7	Convenient formulating with PC connection	22 005 899

For details, see Pac datasheet

Dimensions (mm)

ID7 bench model

ID7 wall model

ID7 panel mount model

Accessories MultiRange Application Terminal ID7

Scale connections		Order No.
IDNet-ID7	Add-on connection for IDNet scales	22 001 082
Analog Scale ID7	Connection for analog weighing platforms	22 001 083
GD17	Connection kit for DigiTOL	00 507 073
Serial interfaces		
CL20m-ID7	CL20mA interface 7-pin receptacle	22 001 084
	CL cable, 3 m	00 503 749
	Adapter 7-pin	00 503 745
RS232-ID7	RS232 interface, 8-pin receptacle	22 001 085
	RS232 cable/DTE, 3 m	00 503 754
	RS232 cable/DCE, 3 m	00 503 755
	RS232 cable/PC, 3 m	00 504 374
	RS232 cable/9p, 3 m	00 504 376
	SICS scale/ID7 connection cable, 3m, for connection to SICS scales via RS232 data interface	22 006 795
	Adapter 8-pin	00 503 756
RS422-ID7	RS422 interface, 6-pole female connector, galvanic separation	22 003 031
RS485-ID7	RS485 interface 6-pin receptacle, isolated	22 001 086
	RS422/485 cable, open end, 3 m	00 204 933
	Extension cable for RS422/485, 10 m	00 204 847
	Adapter 6-pin	00 204 866
Network Interfaces		
Ethernet-ID7	Ethernet-10/100 Base T – twisted pair, 8-pole fem. conn.	22 003 694
	Twisted pair cable, 8-pin, RJ45, 5 m	00 205 247
	Twisted pair cable, 8-pin, RJ45, 20 m	00 208 152
Profibus-DP-ID7	2x PG11 cable gland for direct internal connection	22 004 940
Digital I/O interfaces		
4 I/O-ID7	4 in / 4 out interface, 19-pin receptacle	22 001 087
Relay box 4-ID7	Relay box with 4 inputs / 4 outputs, for connecting to 4 I/O-ID7	22 001 088
	Cable, 10 m, for connecting 4 I/O-ID7 to relay box	00 504 458
	Adapter 19-pin	00 504 461
Relay box 8-ID7	Relay box with 8 inputs / 8 outputs, for connecting to RS485-ID7	22 001 089
	RS422/485 cable, open end, 3 m, for connecting RS485-ID7 to relay box 8-ID7	00 204 933
	24 VDC power unit for relay box 8-ID7	00 505 544

Analog output		Order No.
Analog Output ID7	Analog output 0–10 V, 0–20 mA, 4–20 mA, 5-pin receptacle	22 001 090
	Cable for Analog Output, open end, 3 m	00 204 930
	Adapter D/A, 5-pin	00 205 538
Alphanumeric keyboard		
AK-MFII	Compact alphanumeric keyboard, casing all chrome nickel steel, protection class IP65, 5-pin MFII round connector, spiral cable 1 m approx.	00 505 490
Strip printer (for details, see datasheet GA46)		
GA46	2.5 m, RS232, IP21D	00 505 471
GA46	0.4 m, RS232, IP21D	00 507 229
Protective cover for GA46		00 507 224
GA46-W	2.5 m, RS232, IP65	00 505 799
GA46-W	0.4 m, RS232, IP65	00 507 230
Second display		
ID1 Plus	Compact terminal with BIG WEIGHT® Display	00 505 224
ID7		00 507 690
	Cable for CL20 mA-ID-7, 10 m	00 504 511
Mechanical accessories		
Wall bracket	for bench model, black	00 504 129
	for bench model, st. steel	00 504 130
Floor stand	for bench model, black	00 504 131
	for bench model, st. steel	00 504 132
Stand base	black	00 503 700
	st. steel	00 503 701
Keyboard terminal adapter, for AK-MFII, for ID7 bench model, st. steel		00 208 047
Printer terminal adapter, for ID7 bench model with GA46, st. steel		00 208 264
Cover, for bench and wall models, transparent PVC, set of 3		22 001 091

Conformity	
Quality Certificates	
Worldwide Service	
Internet: http://www.mt.com	

Sales and service:

Reliable weighing data for industry–any time, any place

Aggressive products to weigh? Harsh cleaning agents? In wet, corrosive or dust-laden surroundings?
That's no reason to prevent accurate weighing results and trouble-free operation.
MultiRange ID7 Application Terminals can take it all, in any industrial environment. Made from stainless steel and simple to use, they keep going for years.

METTLER TOLEDO

Tough but sensitive – even in hazardous areas.

☐ Complies with ATEX Directive 04/9/EC for potentially explosive atmospheres

☐ Protection class IP68/IPX 9K—a match for the toughest working conditions

☐ BIG WEIGHT® display–bright, with graphics capability, even in poorly lit areas

☐ Top performance right from the start—with software Pacs to go still higher

☐ Easily integrated, easily added to, all ready for your application

1287.5 kg
DELT | DYN | UNIT | X 10 | BRUT | MODE

To see and be seen – with the patented BIG WEIGHT®-Display. Bright, fast and unmistakably clear, this active dot matrix display shows the result of the weighing operation. Readable from a distance, the amply sized **BIG WEIGHT®** display for the professional user is new from METTLER TOLEDO. Protected behind scratch-proof safety glass or polycarbonate, so the display will not dim with the years.

PESATA DINAMICA
DYNAMISCH WEGEN
ДИНАМИЧЕСКОЕ ВЗВЕШИВАНИЕ
DYNAMISCHES WAGEN
PESADA DINAMICA
WAŻENIE DYNAMICZNE
PESEE DYNAMIQUE
DINAMIKUS MÉRÉS
DYNAMIC WEIGHING

ID7 displays say it loud and clear. In many languages, to guide the user easily and reliably.

BIG WEIGHT® is a registered trade-mark of Mettler-Toledo (Albstadt, Germany) GmbH.

Form follows function—1 terminal, 3 models
One is sure to be just right for your purpose. All three are protected to class IP68 (IPX 9K) and made of stainless steel, so they are truly rugged. Or do you have special needs for reading comfort or cable routing? The wall unit is designed to be tilted and / or turned, cables may be attached to the wall. The panel-mounted terminals may be plug-connected from above or below.

Thick-skinned — but sensitive
The keypad's easy-clean membrane has a smooth surface and yet each entry is clearly felt. It meets every requirement of ergonomic design, hygiene and durability. Entering data is even simpler and quicker with the optional plug-in AK-MFII alphanumeric keyboard, or by barcode.

Interfaces for connectivity
The basic version is ready to go with a RS232 data interface (e.g. to connect a printer) and a socket for the AK-MFII alphanumeric keyboard. Up to 5 more interfaces can be added easily and inexpensively for still greater modularity and flexibility.

Sealed against everything, yet open to anything. Data and signals for other devices that will last for years.

The ID7 24V version
The ID7 is invaluable in systems using 24 V networks. Suitable for all applications, the terminal provides sophisticated, easy to handle weighing technology with the option of cost-effective integration into Profibus and Ethernet systems.
A standard 24 V battery can be connected to the ID7 for mobile weighing solutions, giving you total freedom!

Applications made easy
Every weighing task has its own special features and requires specialist knowledge. This is where the application-specific software Pacs can help you. This software is the result of close co-operation between experts in the industry and our Development Department.
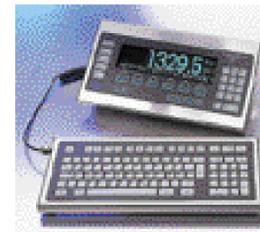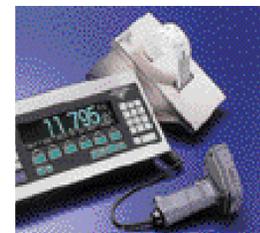
Dispensing / formulating

Checking

Counting

Weighing/checking

Powerful functions
All the usual weighing functions are just the beginning. Additional built-in functions such as auto tare, setpoint memory, test function, DeltaTrac, date/time or product identification data simplify and refine your weighing jobs – even when working with 3 scales interlinked.

ID7 – connection to the world of automation
The «Profibus-DP-ID7» interface card enables the ID7 to be operated as a slave in Profibus-DP. Various functions are available to the user via the master PLC connected to the system. Following are some examples:
• Access to weight values of the weighing platforms connected to the terminal and their operation (zeroing, taring, default tare value settings, etc.)
• Selection of keys and display of texts
• Setting of threshold values e.g. cut-off points when dispensing

PLC/PC
e.g. Siemens S7-30

Fieldbus

Distributed slaves (sensors/actuators)

Technical Data Application Terminal ID7

Housings/Ambient conditions

Bench model

Housing	Angled desktop
Dimensions	see diagrams

Wall model

Housing	Compact housing design with tilt/swing wall adapter
Variable mounting	Front panel can be turned 180°

Panel mount model

Housing	Compact casing for flush mounting
Variable mounting	Front panel can be turned 180°
Material	All chrome-nickel steel DIN X5 CrNi1810
Protection	• IP68 (IEC529): dust and watertight • IPX9K (DIN 40050): resistant to high-pressure/steam-jet cleaning
Ambient temperature	−10 to +40 °C for accuracy class III 0 to 40 °C for accuracy class II

For dimensions for all of ID7 housing, please refer to the dimensional diagrams

Display and data entry

Display

Screen size	195 x 46 mm
Type	Active, high-luminance VFD dot matrix display, graphics capability, green
Displayed data	Weighing data, identification data, clear-text information (user guidance, error messages), graphic information, designation of function keys F1–F6
BIG WEIGHT® display	Patented, large display, showing weight or other data, characters are up to 35 mm high
Display cover	Scratch-proof, toughened safety glass For UK and USA: polycarbonate

Keypad

Type	Three-point membrane keypad with sensed key action, acoustic acknowledgement
Surface	Closed, smooth surface of heavy duty polyester, raised, embossed buttons
Markings/key design	Scratch-proof, 3-color text/symbol markings, important keys enlarged
Key functions	• 4 keys A–D for identification data • 6 function keys F1– F6, with function-change and info key • 4 weighing-function keys • Numeric entry pad
Durability	1 million keystrokes
Alphanumeric entry	• With keys F1–F6, guided selection • Port for MFII keyboard, standard

Standard functions

Weighing functions

Taring	Key-operated, by subtraction
Auto tare	Automatic taring, on/off select
Tare preset	• Through keypad • Through interface, e.g. from PC or barcode reader • 999 tare-setpoint memory for frequently used tare values
Taring functions	Tare addition, tare multiplication, provisional tare
Gross select	Gross displayed on pressing key
Zero set	Automatic or manual
Unit select	Key-operated selection of the following weight units: kg, g, lb, oz, ozt, dwt
Dynamic weighing	For weighing unsettled objects, e.g. animals Selectable cycle time and automatic printout
Stability detection	Adjustable in 4 stages, with movement indicator
Weighing process adapter	Adapts scale to weighing operation, choice of 3 levels
Vibration adapter	Damps the influence of vibration, choice of 3 levels
Test key	• Displays identity code (certification seal) • On K weighing platforms, to verify measuring accuracy (internal auto-calibration)
Check mode	Displays measured weight at higher resolution
Switching points	4 independent freely definable switching points for Base-, Form-, Count-, Sum- and Data2000-ID7

Scale ports

Standard	1 IDNet connection and 1 RS232 connection
Expansion	Expandable to max. 3 scale ports (Accessories), of which 2 are analog

IDNet port
– For MMR weighing platforms D/K/M/N, DigiTOL (with GD17)
– Load corners with system solution Point

RS232 connection (SICS)
- Precision scales with RS232 serial interface
- Viper industrial scales
- Spider industrial weighing system

Analog port

Connection method	Terminals inside
Connectable analog scales	METTLER TOLEDO scales type D...T, N...T, Spider, load corners RWM and system solution analog
Other connectable scales	Number: 1–4 (350 cells) Weighing cells: 1–8 (1000 cells) Sensitivity: 0.4–3 mV/V
A/D converter	Max. resolution (certifiable) 7500 e Max. resolution (not certifiable) 450 000 d DMS supply voltage 8.75 V Min. numeral step (calibr.-ability) 0.58 µV/e Min. numeral step (no calibr.-ability) 0.058 µV/e Max. length of line 100 m Stabilization time typ. = 0.6 s Reading change-rate, adjustable max. 20/s

Display functions

Startup text	Text up to 20 characters, displayed briefly on startup, configured to choice
Tare indicator	NET appears when tare weight is stored
DeltaTrac	Analog display of dynamic readings, with markers for target value and plus/minus tolerances Applications: dispensing, classifying, checking 999-value DeltaTrac setpoint memory