

Technical characteristics

Metrological characteristics

- ▼ DSD Max. number of records 300.000.

Analogue measuring interface

- ▼ Input per division 0.5 μ V
- ▼ Number of divisions 200.000
(Outside legal metrology)
- ▼ Load cell connection:
 - Nominal power supply 5 V DC
 - Sensitivity 2 mV/V
 - Cabling Screened 4/6 core
 - Minimum impedance 58 Ω
 - Maximum impedance 1 245 Ω
 - Maximum cable length 150 m
(0.68 mm²)
 - Connection Push-in terminals
 - Minimum dead load signal 0 mV
 - Maximum effective signal 12 mV
- ▼ Number of measurements available per second 7 to 120
- ▼ Adjustable filter settings

Digital measuring interface (Pmnet)

	ML	HML
▼ Accuracy class (ML only)	III or IIII	-
▼ Maximum number of steps:		
▼ Class III	10.000	30.000
▼ Class IIII	1.000	-
▼ Supply voltage	24 V dc	-
▼ Maximum number of ranges	2	-
▼ Load impedance		
▼ Number of physical channels	1	
▼ Number of channels	1	
▼ Max. number of load cells per channel	12	
▼ Pi error distribution factor	0	

Environmental characteristics

- ▼ Temperature range:
 - Operation -10 °C / + 40
 - Storage -20 °C / + 60
 - Sealing (stainless steel case) IP 66
 - Sealing (rack mounting) IP 20 (IP65 front panel)

Electrical characteristics

- ▼ Power supply:
 - Mains voltage 230 V \pm 10%
 - Frequency 50 Hz \pm 2%
 - Power consumption 150 VA max.

Electronic characteristics

- ▼ LCD screen, 10.4 inches, 800 x 600 pixels (SVGA), 16.2 million colours, back lit.
- ▼ Resistive touch pad.
- ▼ ATOM Intel processor, 1.6 Ghz.
- ▼ Static disk capacity: 4 Go.
- ▼ RAM: 1 Go.
- ▼ Operating system: Windows Embedded Standard.

Input/Output card option

- ▼ 6 voltage-free logical inputs including one analogue input and one multi-function input (watchdog, filtration or rapid counting):
 - Input impedance 7.5 k Ω
 - Input voltage 6 - 30 V dc
- ▼ 6 isolated logical outputs:
 - Max. current 125 mA
 - Max. voltage 48 V dc
 - R_{on} 25 Ω
- ▼ 1 analogue output 4-20 mA (weight information or any other information transmitted via the field bus).
 - Impedance 50 - 350 Ω

Metrological approval

- ▼ Compliant with the European Directive relative to Non Automatic Weighing Instruments (NAWI).
6.000 range (mono or bi-range) and 3.000 range (multi-range).
- ▼ Compliant with the MID European Directive relative to Automatic Weighing Instruments (AWI)
 - Checkweighers: classes XIII(1) and Y(a).
 - Continuous totalisers (dynamic weighing): classes 0.5 and 1.
 - Discontinuous totalisers (static weighing): classes 0.25, 0.5, 1 and 2.

CE Conformity

- ▼ Compliant with European Directive relative to Electromagnetic Compatibility.
- ▼ Compliant with European Directive relative to Low Voltage equipments.

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Your specialist

Illustrations are not contractual. Precia-Molen reserves the right to alter the characteristics of the equipment described in this brochure at any time.

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PRECIA-MOLEN™
 WORLDWIDE WEIGHING

I 700 I 700 weighing terminal

PRECIA-MOLEN™
 WORLDWIDE WEIGHING



General description

The I 700 is a freely programmable weighing terminal combining the performances of a PC type micro-computer with the characteristics of a weight indicator approved for non-automatic or automatic weighing instruments.

Its colour graphic touch screen provides unique ergonomics for industrial weighing equipment.

Its operating system, Windows Embedded Standard, allows the I 700 terminal to be used as a production tool, which can be easily integrated within the company's IT architecture.

The use of a full scale data base ensures integrity and performances rarely found on this type of device.

The I 700 terminal is extremely modular, enabling adaption to the requirements of the workstation and future developments:

- Management of 1 to 31 scales with analogue or digital sensors
- High capacity static hard disk
- Serial ports
- USB sticks
- Analogue outputs
- Logical I/O
- Ethernet ports
- ...

For more rapid data input, the I 700 terminal may be equipped with a PC type external keyboard and a bar code scanner.

The I 700 terminal is equipped with a library of professional applications:

- ▼ Labelling group
- ▼ Checking prepacked statistics
- ▼ Manual formulation / weighing unit
- ▼ ...

and specific applications may be developed by us in line with your specifications.

Available models

The I 700 Terminal is available in two versions:

- ▼ I 700 - S: Stainless steel case
- ▼ I 700 - C: Rack mounting

Note: The list of the various applicable European Directives as well as the list of countries with an accreditation can be found in our International Product Guide ref. 99-02-01-1 FT.

I 700-S Stainless steel case

Standard equipment

- One USB 2 port, for USB memory stick provided (type A sealed connector)
- DSD (Data Storage Device)

Options

Measurement

- 1 to 2 analogue or numerical internal scales, PMNet (sealed output on PE, spring type)
- Extension for up to 31 external scales on CAN bus

USB port

- 1 to 4 USB 2 port(s) (type A sealed connector)

Serial link

- 1 to 3 serial RS port(s) 232, RS 422 or 485 (Din 8 pts, sealed)

Ethernet

- 1 to 2 port(s) Ethernet 100 Mbits, (sealed PE output, 10 m cable supplied with RJ 45 connector)

Go/no-go and 4-20 mA inputs/outputs

- 1 to 2 internal cards, each comprising:
 - 6 numerical inputs/6 numerical outputs
 - One 4 - 20mA analogue output
- Other Input / Output available on external CAN bus

Other

- External AZERTY or QWERTY keyboard
- Barcode scanner

Mechanical accessories

- Table base
- Wall mounting

I 700-C Rack mounting

Standard equipment

- 4 USB 2 ports (type A connectors)
- 2 Ethernet 100 Mbits ports (RJ45 connectors)
- 3 serial RS ports 232, RS 422 or 485 (Sub D 9 pts M)
- DSD (Data Storage Device)

Options

Measurement

- 1 to 2 analog or numerical scales, PMNet (spring type)
- extension for up to 31 external scales on CAN bus

Go/no-go and 4-20 mA inputs/outputs

- 1 to 2 cards, each comprising:
 - 6 numerical inputs/6 numerical outputs
 - One 4 - 20mA analog output
- Other Input / Output available on external CAN bus

Other

- Sealed USB 2 connector to be integrated in the cabinet front (USB memory stick supplied)
- External AZERTY or QWERTY keyboard
- Barcode scanner

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