SCALEX 1752
WEIGHT INDICATOR



- Legal-for-trade
- High-contrast LED display
- 6-key keypad with 3 programmable function keys
- Ethernet and USB interfaces as standard
- RS-232 and RS-422/RS-485 serial interfaces
- Up to 16 × 350-ohm load cells
- Modbus ASCII, RTU and TCP/IP

APPLICATION

Scalex 1752 is an industrial weight indicator designed for applications such as truck scales, process control and programmable weighing solutions.

The indicator can be connected to PCs, HMIs, PLCs, printers and remote displays, providing flexible integration into weighing and process control systems.

EQUIPMENT

A high-contrast, six-digit green LED display and six-key keypad provide a clear user interface. Three programmable function keys complement the dedicated Zero, Tare and Gross/Net keys, while annunciators show weighing status, units, ranges and I/O states. A battery-backed clock and calendar are included.

The indicator supports panel and desktop mounting, with desktop stands provided as standard. Panel mounting uses a DIN 43 700 cut-out. Two option slots support digital I/O, analogue output or isolated RS-232 and RS-485 interfaces. A stainless-steel dust cover is available as an accessory.

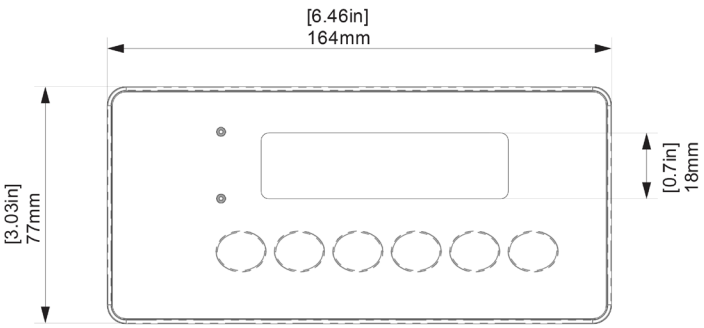
COMMUNICATION

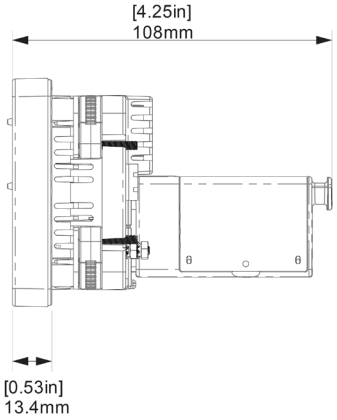
Ethernet, USB and serial interfaces provide connectivity with external systems and devices. USB Host supports keyboards, printers, mass storage devices and serial interfaces, while USB Device operates as a USB serial port.

Modbus ASCII, RTU and TCP/IP are supported, together with TCP and UDP communication over Ethernet. Ethernet/IP and isolated serial interfaces are available as options. A magnetically coupled infra-red interface enables temporary PC connection for configuration and diagnostics.

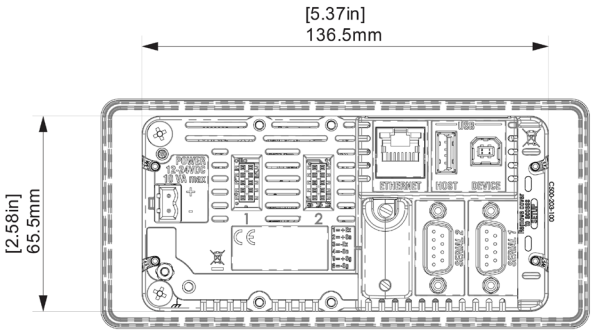
TAMTRON
Mestarinkatu 2
FI-15800 Lahti
Finland
tel: +358 3 3143 5000
general@tamtron.com
www.tamtron.com

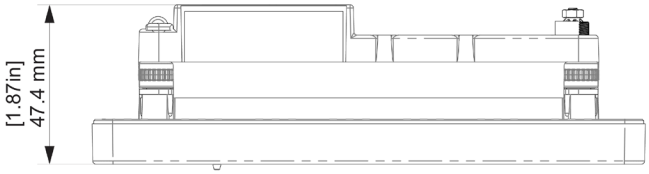
SCALEX 1752





With Loadcell Adaptor





INPUTS AND OUTPUTS

Optional modules provide additional inputs and outputs for process control and system integration. The digital I/O module provides eight isolated I/O control points, while the analogue output module provides an isolated 4–20 mA or 0–10 V output and two digital I/O.

OPERATION AND SETTINGS

Single-range, dual-range and dual-interval operation are supported, together with full digital calibration and visual prompts. Selectable hardware and digital filtering, combined with 10-point linearity correction, allow the weighing response to be adjusted for different applications and operating conditions.

WEIGHING ELECTRONICS

The weighing electronics support analogue load cells with 4-wire or 6-wire connections. A 24-bit Sigma-Delta A/D converter provides high measurement resolution, with support for up to 16 × 350-ohm load cells.

FUNCTIONS

Standard weighing functions include Zero, Tare and Gross/Net, complemented by three programmable function keys. Additional functions include totalising, Hold and Peak Hold, while eight configurable set points support various process control applications.

LEGAL-FOR-TRADE APPROVED

For legal-for-trade applications, Scalex 1752 supports a resolution of up to 10,000 d at 0.5 µV/d in accordance with OIML R76. Alibi mode, a change log and built-in data storage (DSD) are provided as standard.

TAMTRON
Mestarinkatu 2
FI-15800 Lahti
Finland
tel: +358 3 3143 5000
general@tamtron.com
www.tamtron.com

SCALEX 1752

SOFTWARE

- Embedded web server
- Modbus ASCII, RTU and TCP/IP
- Ethernet/IP (optional)
- Lua programmable functionality (optional)

WEIGHING ELECTRONICS

- Resolution ..... up to 100,000 d, minimum 0.05 µV/d
- No. of increments in certified application ..... 10,000 d at 0.5 µV/d, OIML R76
- Internal counts 8,388,608
- Load cells ..... up to 16 × 350 ohm
- Load cell excitation ..... 5 V
- A/D converter ..... 24-bit Sigma-Delta
- Zero cancellation ..... ±2.0 mV/V
- Span adjustment ..... 0.1–3.0 mV/V full scale
- Operating Modes ..... single range, dual range and dual interval
- Approvals ..... OIML R76, NTEP

HARDWARE

- Display ..... 6-digit, 14-segment green LED, 13.8 mm
- Keyboard ..... 6 keys, 3 programmable function keys
- USB ..... 1 × USB Host, 1 × USB Device
- Ethernet ..... 1 × 10/100 Ethernet
- Serial interfaces ..... 1 × RS-232 / RS-422/RS-485, 1 × RS-232
- Digital I/O (optional) ..... 8 isolated digital I/O
- Analogue output (optional) ..... 4–20 mA or 0–10 V, 2 digital I/O
- DC power supply ..... 12–24 V DC, 10 VA
- AC power supply (optional) ..... 110–240 V AC, 50–60 Hz, ~0.6 A, 12 V DC output
- Case front ..... PMMA and elastomer
- Case rear ..... flame-retardant ABS, UL94V0

DIMENSIONS AND ENVIRONMENTAL CONDITIONS

- Case size ..... W × H × D: 164 × 77 × 47.4 mm
- Panel cut-out ..... W × H: 137 × 68 mm, DIN 43 700
- Mounting ..... panel or desktop
- Packed weight ..... ~0.4 kg
- Nominal environment temperature ..... –10 to +40 °C
- Operating temperature ..... –10 to +60 °C
- Storage temperature ..... –40 to +70 °C

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general@tamtron.com
www.tamtron.com