



## Product Description

The type nWeigh terminal is the ideal solution for any application where exact measurements must be immediately stored and processed electronically. The components of the fully integrated weighing system are the industrial PC with touch screen, a PCI weighing interface and special software. Measurement results are clearly displayed directly on the PC screen in real time, while the software simultaneously records and transfers the data to the user's inventory management system.

## Key Features

- Fully integrated scale
- EU Type approval for 10 000 intervals
- Single range, multi range or multi interval
- Connection of analogue load cells or type RC3D digital load cells
- 6 different enclosures
- Display via Windows®-based software
- Approved alibi memory on hard disk
- Simple data processing through OLE interface

## Options

- Connection of second analogue scale
- Connection of up to 16 type RC3D digital load cells
- Scale controller for multi range or multi interval
- 1x digital input, 2x digital output

## Specifications

### ACCURACY

Accuracy class	III
EU Type approved	10 000 intervals (single range scale) or n x 10 000 intervals (multi range scale / multi interval scale; n = 2, 3)

### ANALOGUE LOAD CELLS AND A/D CONVERTER (Depends on scale controller)

Load cell excitation	5 V DC or 5 V AC, 80 Ω or higher
Load cell connection	4 or 6 wire technique
A/D Converter type	18, 19 or 21 bit
Conversion rate	Up to appr. 120 measurement values per second
Minimum input per vsi	From 0.1 μV per interval legal for trade; from 0.02 μV per interval non approved
Analogue input range	±11 mV/V (bipolar, for weighing applications, force and torque measurements)
Resolution	Up to 1 million counts

### INTERFACE TO DIGITAL LOAD CELL (Option)

Communication & protocol	RS-485 half-duplex, compatible with RC3D load cell
Load cell excitation	12 V DC
Number of digital load cells	Up to 8 digital load cells (internal power) or 16 digital load cells (external power) in parallel
Load cell connection	4 wire technique, 2 wires for digital interface and 2 wires for power supply

### CALIBRATION AND FUNCTIONS

Calibration	Calibration and setup by software; corner correction for analogue load cells within junction box
Digital filter	Adjustable lowpass filter (depends on scale controller)
Scale configurations	Scale 1, scale 2, scale 1+2
Weighing functions	Tare, zero, motion detection, automatic zero tracking, auto zero after power-up
Sensor curve linearisation	Up to 7 nodes (depends on scale controller)
Tilting	Inhibits weighing when scale is tilted
Alibi memory	Optionally available

UNIT TYPE	S12	S15	S15-G2	S19	C15	P15
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### ENVIRONMENT AND ENCLOSURE

Completely sealed enclosure, no external fan	•	•	•	•	•	-
Stainless steel enclosure (1.4301, polished)	•	•	•	•	-	•
Aluminium enclosure with powder coated rear panel and CYCOLOY® front	-	-	-	-	•	-
IP20 protection, front IP65 (NEMA 4)	-	-	-	-	-	•
IP54 protection, front IP65 (NEMA 4)	•	•	•	•	•	-
Option for higher protection (NEMA 4), depends on connector cover	IP65	IP65	IP67	IP69K	IP65	-
Operation temperature range 0 °C bis +40 °C (with automatic temperature monitoring)	•	•	•	•	•	•
Extended operation temperature range for low temperature (optionally available)	-20 °C	-25 °C	-30 °C	-	-25 °C	-25 °C
Storage temperature range -30 °C bis +60 °C	•	•	•	•	•	•
Mounting bracket, short version	•	•	-	-	•	-
Mounting bracket, long version	0	0	-	-	0	-
Wall mounting kit	-	-	•	•	0	-
Stand mounting kit	-	-	0	0	-	-

### DISPLAY AND OPERATION

30.7 cm / 12.1 inch TFT display (SVGA, 800 x 600 pixels, 350 cd/m <sup>2</sup> )	•	-	-	-	-	-
30.7 cm / 12.1 inch TFT display (XGA, 1024 x 768 pixels, 320 cd/m <sup>2</sup> )	0	-	-	-	-	-
38.1 cm / 15.0 inch TFT display (XGA, 1024 x 768 pixels, 450 cd/m <sup>2</sup> )	-	•	•	-	•	•
48.3 cm / 19.0 inch TFT display (SXGA, 1280 x 1024 pixels, 450 cd/m <sup>2</sup> )	-	-	-	•	-	-
Resistive analogue touch screen	•	•	•	•	•	•
Automatic brightness controll	-	-	•	•	•	-
20 function keys	-	-	•	•	-	-

### PC-HARDWARE AND SOFTWARE

Intel® Celeron M 1.0 GHz CPU, 1 GB RAM, 3D graphic controller up to 64 MB	•	•	•	•	•	•
80 GB hard disk (optionally 8 GB or 32 GB solid state hard disk)	•	•	•	•	•	•
Connectors for 1x DVI-I Monitor, PS/2 keyboard/mouse	•	•	•	•	•	•
4x USB 2.0, 2x RS232, 1x RJ45 100 Mbit Ethernet	•	•	•	•	•	•
RS422/RS485, LPT, 1 Gbit Ethernet, WLAN or digital I/O (10x in/8x out)	0	0	0	0	0	0
Compact-Flash-Slot (Typ II), Mini PCI, 1x PCI slot (200 mm long)	•	•	•	•	•	•
Operating system Windows® 7, XP, 2000, XP Embedded	pre-installed, at extra charge					

### POWER SUPPLY

100-240 V AC, 50/60 Hz (including power cable for EU countries)	-	-	•	•	-	-
24 V DC (18-32 V DC)	•	•	0	0	•	•
100-240 V AC, 50/60 Hz (via external standard power supply)	•	•	-	-	•	•

• standard version

0 optionally available

- not available