R10 Weighing Indicator

Stainless steel weighing indicator for one to three scales – the electronics behind WPL's R10 series, designed and built in the Netherlands.



A robust, easy-to-clean indicator for industrial and marine weighing, with scripts, presets and open connectivity.

The R10 is the indicator of WPL's R10 series, including the M3 and M6 marine scales, and runs the optional embedded WeightControl software for statistics, datalogging and API access. It is available with a 7-segment LED display or with a 4.3 in or 7 in touch screen.

AISI 316 stainless steel housing	**1–3** weighing platforms	**24-bit** sigma-delta A/D, 3 channels
50 presets with setpoints	**13** digital I/O channels	**120+** interpreter commands

Functions

Universal use

Built for difficult environmental conditions and for locations with high hygienic standards, as in the food, pharmaceutical and chemical industries. Robust, high IP rating and easy to clean.

Weighing program

Net, tare and gross weight. Operator prompting with entries based on scripts. Weighings can be stored in an internal data archive; optional hardware shields add connectivity and integration.

Data to PC

After each weighing cycle all entered IDs, date, time and weight are transmitted, for storage on the PC. Via USB, weighing, taring and zero setting can be controlled remotely; data also goes through the serial interface or Ethernet LAN.

Display and keyboard

Crystal-white 7-segment display for weight, operator prompts and calibration. Sealed membrane keyboard with tactile feedback: general keys for tare weights and information, scale keys for zero and tare, and function keys.

Weighing electronics

Connects one to three scales with analogue strain-gauge load cells, suitable for C3 and C6 load cells. Calibration as single or multi-range (e.g. 2 × 4000 d). Interface modules for digital load cells are available as options.

Built-in interpreter

For application integration the R10 has a built-in command interpreter with more than 120 commands to control the indicator and its functions.

Data logging

With the optional data logger: printouts of weights, totals, date, time, stored texts, entered IDs and calculated values.

Switching and filling

The built-in relays monitor two weight thresholds, e.g. maximum or minimum. Weighing cycles and taring can be started from external switches, or the inputs and outputs run a filling sequence with a start/stop switch.

WPL Industries BV · Geldermalsen, The Netherlands

Contact: MASSLAB · +31 (0)345 786 553 · info@masslab.nl · marineweighing.com

GENERAL	
Housing	AISI 316 stainless steel
Mounting	Tabletop, wall, column or panel
Power	AC or DC models; battery charge circuit; optional high-capacity battery
On board	Real-time clock · temperature monitoring
Security	Password protection for user and configuration changes
WEIGHING	
Load cells	Analogue strain gauge; digital load cells via optional interface
Platforms	Up to three
A/D converter	24-bit sigma-delta, 3 ADC channels
Ranges	Single range, multi-range or multi-interval
Filter	Settings for light, medium and heavy noise
DISPLAY & OPERATION	
R10 standard	White 7-segment LED, 0.56 in (14 mm), with dimming
R10 Touch / Touch XL	4.3 in / 7 in touch screen
Keyboard	Sealed membrane keys with tactile feedback
Menu key	Scale select, preset tare, accumulator, time & date, setpoints
Presets	50, with under limit, target and over limit setpoints, tare and price
Tickets	Selectable formats: header text, gross, net, accumulator, setpoints
CONNECTIVITY & I/O	
USB	Device port, connects directly to a PC
Connectors	Built-in industrial connectors for load cells and serial ports
Expansion	Hardware slot for Arduino Uno-format shields: Bluetooth, Wi-Fi, Ethernet
Digital I/O	13 on-board channels
Relays	4 relay outputs
Data storage	Optional flash card
Operation	Local or remote



Options & accessories

- Analogue output, 12-bit: 0–10 V DC, 0–20 mA, 4–20 mA
- Relay output: 4 dry contacts, normally open (SPST), 30 V DC / 250 V AC, 3 A
- Fieldbus interface: Profinet®, Profibus®, Modbus TCP®, EtherNet/IP™, DeviceNet®
- Metrological hardware sealing kit
- Battery pack
- WeightControl embedded software (statistics, datalogging, API)

Models

R10 standard
7-segment white LED, 14 mm · Membrane keyboard
Single weighing · parts counting · tolerance check ± · filling · calculation

R10 Touch
4.3 in touch screen · Touch + membrane
Single weighing · parts counting · tolerance check ± · filling · calculation

R10 Touch XL
7 in touch screen · Touch + membrane
Adds fast weighing, filling with graphs, formula calculation and check weighing

Specifications may change without notice. For configuration advice, marine options or a quotation, contact MASSLAB (Geldermalsen): info@masslab.nl · +31 (0)345 786 553.