



Procon Engineering

(A Division of National Oilwell Varco UK Limited)



Type EP52 Digital Beltweigher Controller

digital resometric input	114mm x 64mm backlit graphics and text display
tachometer input for precise measurement of actual belt speed	optional outputs of live weight, flow rate, and totalised values
optimised to maximise the resometric beltweigher input	belt speed control, and batch control
2 programmable serial interfaces with various protocols including Modbus	dynamic zero compensation facility

The EP52 Digital Beltweigher Controller is the latest in a long line of dedicated controllers from Procon, used for demanding Beltweighing applications in the harshest environments.

The EP52 Digital Beltweigher Controller is equipped with modern electronics for field bus connections.

As opposed to Analogue Load Cell Beltweighing systems, the Procon/Inflo Digital Beltweigher has no moving parts. At the heart of the scale is the Digital Resometric Force Transducer that provides unequalled levels of measurement performance that are repeatable for many years. The resonant frequency changes in proportion to the applied load passing over the carriage rollers, this change in frequency is processed by the electronics and combined with the belt travel speed (as measured by the Tachometer) provides an accurate weight reading per unit time.

A very powerful controller, housed in a compact enclosure with a sealed IP65 front panel, ensuring High performance combined with long-term repeatability.

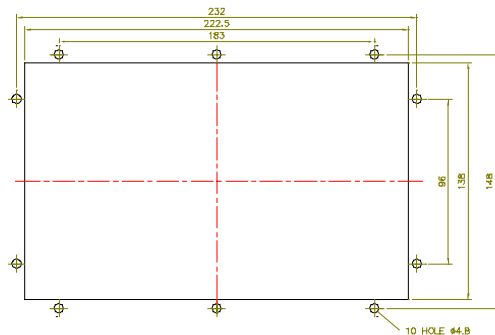
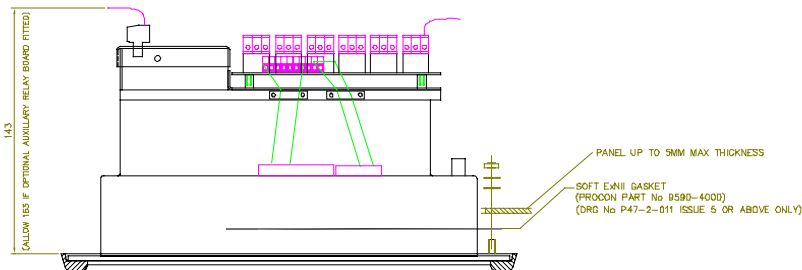
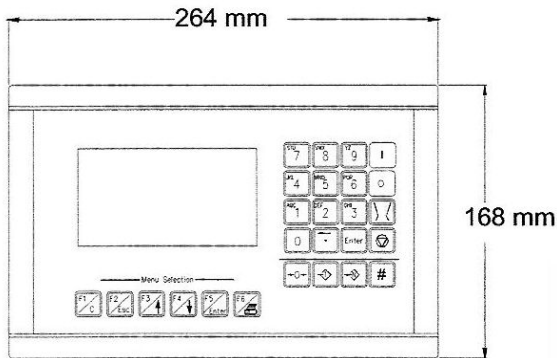
Also suitable for the upgrade of existing Procon/Inflo Beltweighing installation/applications.

technical specification sheet

Type EP52 Digital Beltweigher Controller

SPECIFICATION

Power:	24 volt DC nominal tolerance 18v to 34v – 40VA consumption
Resonator input:	From Beltscale weighbox – uses special inbuilt circuit.
Tachometer input:	Tachometer – uses special inbuilt circuit.
Optional auxiliary input:	0 to 10V or 4 to 20mA.
A/D conversions:	24 bit resolution
Serial interface port 1:	RS232. and RS485 2 wire/4wire (software configured)
Serial interface port 2:	RS232 and RS485 2 wire/4wire (software configured).
In-built digital inputs:	6 x opto isolated 12 to 32 Vdc (with wetting voltage).
Standard outputs:	10 plus watchdog/open collector (relay options available).
Optional analogue output:	0 - 10V & 4 – 20mA, 12 bit – isolated.
Display::	114mm x 64mm graphics and text.
Programming display:	Backlit dot matrix LCD display with LED backlighting.
Keyboard:	Polycarbonate overlay with tactile keyswitches.
Environmental:	Operating temperature range 0 to +45 degrees C.
Sealing:	IP65 (front panel only).
Weight	3.5 kg.



Procon Engineering's policy is one of continuous product enhancement. We therefore reserve the right to incorporate technical modifications without prior notification. E & O E.

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