



High Visibility Weight Indicator

Introduction

The high visibility weight indicator is a combination of proven interface technology and a highly visible large digit display.

It connects directly to a maximum of 4 x 350 Ω or 8 x 700 Ω load cells (N740 version). Alternatively, it can be connected to a 0-10V or 4-20mA signal (C740 version). Measurement is highly accurate, stable and reliable in all conditions.

Weight is displayed on 120mm high contrast LED digits. The display is highly visible in indoor and outdoor environments including direct sunlight.

Specifications

Power			
AC Power	110/240VAC 50/60Hz 25W		
DC Power	12-24VDC 28W		
Loadcell input			
Stability/Drift	Zero: < 0.1 μ V/ $^{\circ}$ C (+ 8ppm of deadload max) Span < 8 ppm/ $^{\circ}$ C, Linearity < 20 ppm, Noise < 0.2 μ Vp-p		
Excitation	5 volts for up to 4 x 350 or 8 x 700 ohm load cells (4-wire or 6-wire plus shield) Maximum total load cell resistance: 1k Ω		
Operating Temperature	-10 to +50 $^{\circ}$ C ambient		
Option: 0-10V / 4-20mA input			
	Min	Typical	Max
Voltage input range	-11V		11V
Current input range	-22mA		22mA
Error			< 0.1%
Input resistance (voltage input)		100k Ω	
Input resistance (current input)		433k Ω	
Operating Temperature	-10 $^{\circ}$ C		40 $^{\circ}$ C

Note: Refer to Indicator Manual and Remote Display Reference Manual for further specifications.

Wiring



**Warning – If using DC power and 0-10V/4-20mA input signal, the input signal must be isolated from the DC power supply.
– Both units contain Hazardous Voltages. Disconnect power before opening.**

End Plate A: Setup and Calibration



End Plate B: Connections

Figure 1: Access

AC power

- § Power connection should be performed under local regulations.
- § The earth MUST be connected for both safety and EMC regulation compliance.
- § Connect power according to Figure 2.

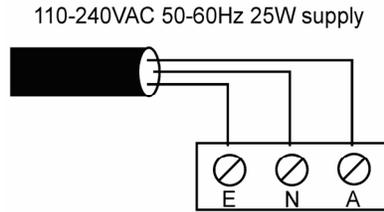


Figure 2: AC power supply connection

DC power

- § For the display to power up, 12-24VDC must also be connected to the IG (ignition) input.
- § Connect power according to Figure 3.

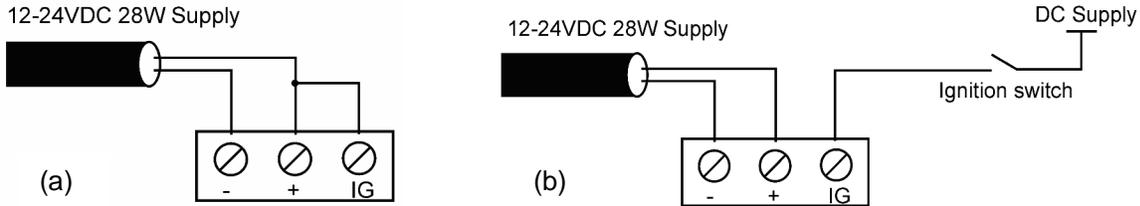


Figure 3: DC switched connection

Loadcell Input

- § Connect the loadcell(s) to the 7-way connector, as displayed in Figure 4.
- § Connect setpoint outputs as shown in Figure 4, if used.

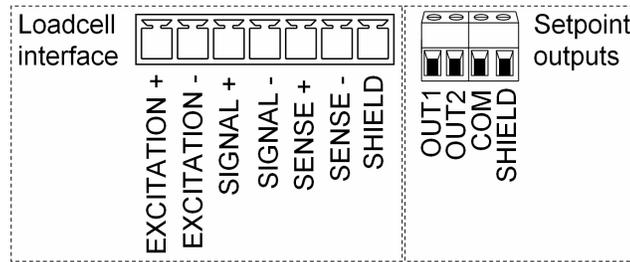


Figure 4: Loadcell interface and setpoint outputs

0-10V Input/4-20mA Input

- § For the 0-10V input, remove the link on J1. For the 4-20mA input, ensure that the link is fitted on J1.
- § Connect the signals as shown in Figure 5.
- § Connect setpoint outputs as shown in Figure 5, if used.

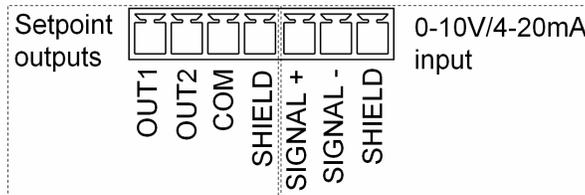


Figure 5: Interface of the 0-10V/4-20mA input converter.

Setup and Calibration

- Remove end plate A to access the instrument located inside. Refer to the R3XX Indicator Manual for setup and calibration.

Remote Button Input

- Refer to the R3XX Indicator Manual for setup of a remote button input, if used.

Mounting

- Refer to the Remote Display Reference Manual for instructions.