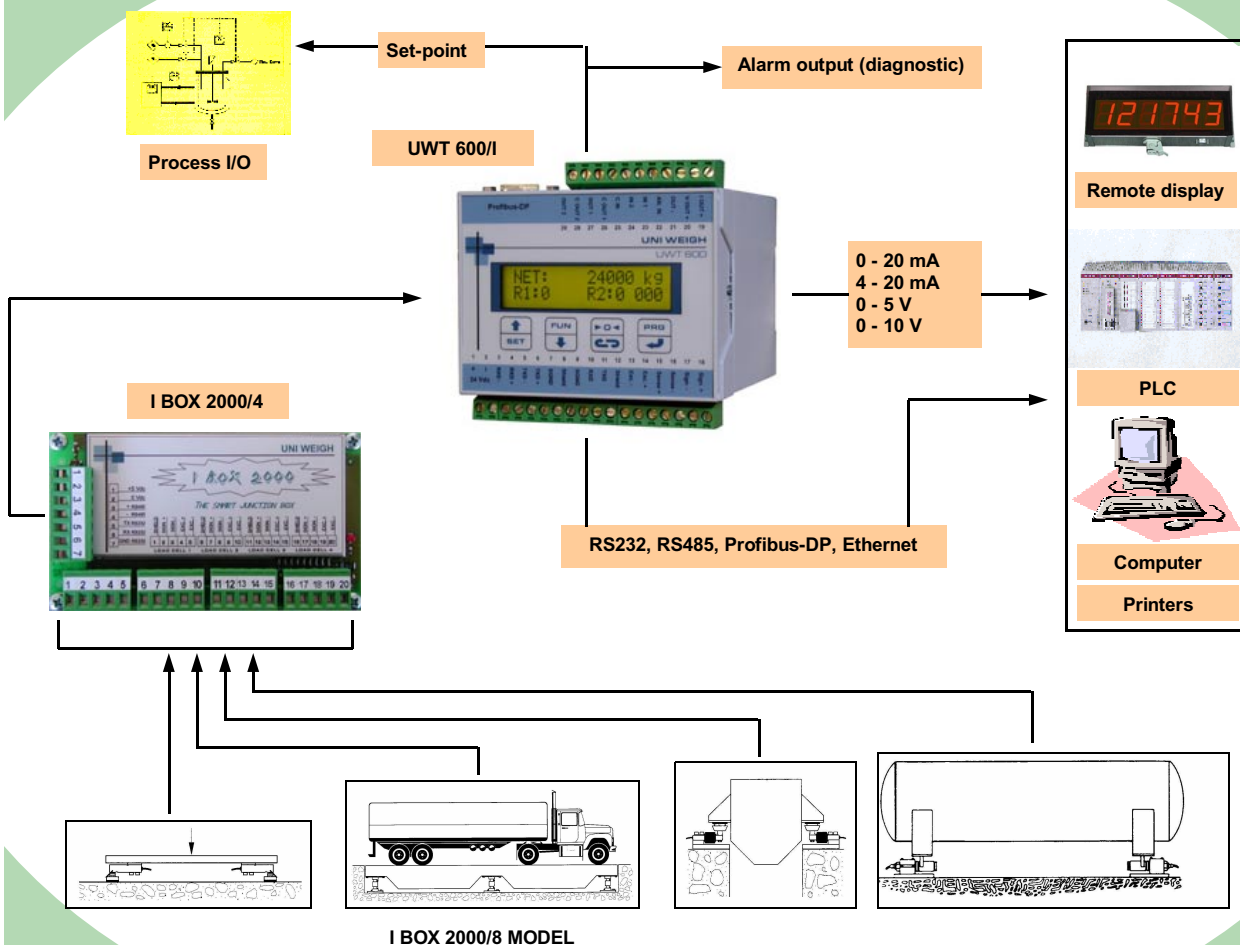


UWT 600/I + I BOX 2000/4

The Universal Weight Transmitter and the Intelligent Digital Junction Box Combination

for scales and weighing systems with 2, 3 or 4 analog load cells



The **UWT 600/I** is a high class transmitter incorporating the most recent advanced technology for industrial weighing and force measurement using strain gage transducers (load cells); the instrument runs the program to visualize and evaluate the digital information from the **I BOX 2000/4** digital diagnostic junction board.

The **I BOX** converts the load cells mV/V signal into a digital measurement with very high resolution (**24 bits**) and sends a data string to the 600 over one serial line (RS232 or RS485).

The **600** used in combination with the **I BOX** measures the **total weight** and the **single weights and mV/V outputs** of each load cell. It incorporates as a slave unit into several **networks** by taking advantage of the **ASCII, Modbus RTU, Profibus-DP or Ethernet** communication capability.

Ordering information:

A

UWT MODEL	Serial Outputs		Analog output + 2 Digital Inputs + 2 Relay Outputs	Profibus-DP	Ethernet
	COM1 RS232C Short distance	COM2 RS485 Long distance			
600/I	•	or	•		
600/IP			•	•	
600/IE			•		•

+

B

I-BOX MODEL	For 2, 3 and 4 analog load cells	For up to 8 analog load cells	16 analog load cells	Requires special software
2000/4	•			
2000/8		•		•

Main specifications:

For full technical information please refer to the individual brochures or to the technical manual.

<u>Power supply:</u>	24 Vdc ± 15%, 10 Watt
<u>Temperature: (outside air):</u>	-10°C to +50°C (14 to 122°F)
<u>Storage temperature:</u>	-20°C to +70°C (-4 to 158°F)
<u>Display:</u>	LCD, alphanumeric
<u>Keyboard:</u>	(4) keys, tactile feedback
<u>Load cells excitation:</u>	5 Vdc, short circuit protected
<u>Signal input range:</u>	-1.5 mV/V to 3.5 mV/V
<u>Input sensitivity:</u>	0.02 µV/count
<u>A/D Converter resolution:</u>	24 bit (over 16 million counts)
<u>A/D Conversion rate:</u>	6 updates/second
<u>Linearity:</u>	better than 0.01% of range
<u>Reading update:</u>	50/sec.
<u>Filter:</u>	0.1Hz to 25Hz selectable
<u>Calibration methods:</u>	with test certificates, sample weights, table (mV/capacities)
<u>Digital inputs:</u>	2 opto-isolated, 24 Vdc PNP
<u>Relay outputs:</u>	2 mechanical relays (dry contacts)
<u>Serial output:</u>	RS232 or RS422/485
<u>Standard protocols:</u>	ASCII, Modbus RTU
<u>Optional protocol:</u>	Profibus-DP or Ethernet
<u>Analog output:</u>	0-5, 0-10V / 0-20, 4-20mA
<u>CE conformity:</u>	EN61000-6-2, EN61000-6-3

- **The economical and effective alternative to digital load cells**
- **Replaces analog resistance junction boxes**
- **Simplifies installation and calibration**
- **Performs system diagnostic**
- **Prompts the operator for load cells overloads and bad connections**
- **Displays individual load cell mV/V outputs and weights**
- **The emulation function compensates for load cell failure**
- **One pass of test weight performs the automatic scale calibration**

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