

# DWI -2005

## Built-in Modbus

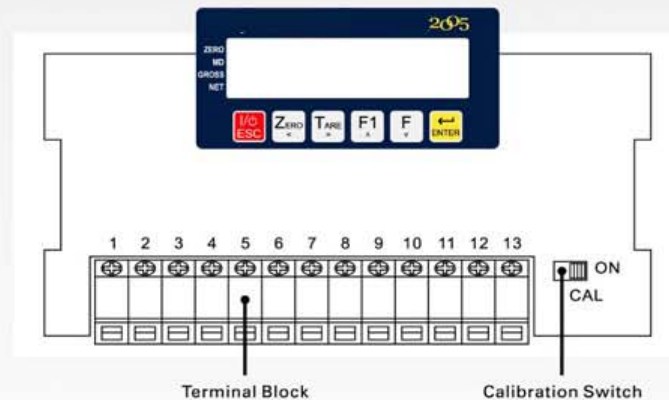
### DC Power Weighing Indicator



## DC Power Weighing Indicator (Built-in MODBUS)

### Features:

- DC power supply: with DC12V~24V power supply design for the application of flame-proof system
- Built-in MODBUS RTU format easily connect with any human machine interface and PLC
- Built-in RS-232 serial interface or RS-485 serial interface
- Compact design with dimension 96 (W) x 48 (H) x 140 (D), easily mounted into the system panel
- Display: 6 digits, bright red, 7 segments LED with character height 16mm (0.63"); the weight unit could be switched between kg, g, t and lb. Display could be switched between Gross / Net / Accumulation Weight / Accumulation times
- Stand alone batching mode or connect to PLC for external system control: 6 weight comparison modes, Batching / dosing function, Manual / Auto discharge operation, Setting cycle times and totalizing of weight or times
- High performance A/D: 0.12  $\mu$  VD input sensitivity, 120 (max.) times/sec conversion rate and -0.1mV/V ~ 4.0mV/V AD measuring range
- Flexible calibration procedures: 2 points or 5 points linearity calibration applicable, and directly key in and memorize the voltage value (mV/V) for the maintenance
- Adjustable filter to prevent vibration of environment



### Rear Panel: 13 Way Terminal Block

1st	EARTH or GROUND
2nd	DC+
3rd	DC -
4th	Not Used
5th	TXD / DA -
6th	RXD / DA+
7th	SG
8th	EXC+
9th	EXC -
10th	SEN -
11th	EXC -
12th	SIGNAL +
13th	SIGNAL -

## Specifications:

### ⊙ Analog

<b>Input sensitivity</b>	0.12 $\mu$ V/d maximum	
<b>Max. load cell input voltage</b>	-0.1mV/V~+4mV/V	
<b>Load cell excitation voltage</b>	DC 5V	
<b>Excitation available current</b>	120mA ( will power 8 x 350 $\Omega$ load cells )	
<b>Temperature coefficient</b>	<b>Zero</b>	20 ppm/ $^{\circ}$ C ( -10 $^{\circ}$ C~+40 $^{\circ}$ C)
	<b>Span</b>	6 ppm/ $^{\circ}$ C ( -10 $^{\circ}$ C~+40 $^{\circ}$ C)
<b>Non-linearity</b>	$\pm$ 0.0015%FS	
<b>Input noise</b>	0.22 $\mu$ Vp-p f = 0.1 ~ 10 Hz	
<b>Input impedance</b>	250G $\Omega$	
<b>Maximum resolution</b>	520,000	
<b>Max. display resolution</b>	-199999~999999	
<b>Conversion rate</b>	120 times/second (max.)	

### ⊙ Digital

<b>Main display</b>	6 digits, red LED, 16mm (0.63"), 7-segment
<b>Status display</b>	4 selectable status from Zero, MD, Gross, Net, Accu. V, Accu.C, SP1, SP2, SP3, Hi, OK, Lo, Under, Over, Unloading, Running, Hold
<b>Display update rate (times/sec)</b>	Selectable
<b>Display range</b>	-199999~999999
<b>Minor division</b>	1, 2, 5, 10, 20, 50
<b>Operation keys</b>	Standby/Esc, Zero, Tare, F1, F, Enter
<b>Decimal point position</b>	Selectable 0, 0.0, 0.00, 0.000, 0.0000

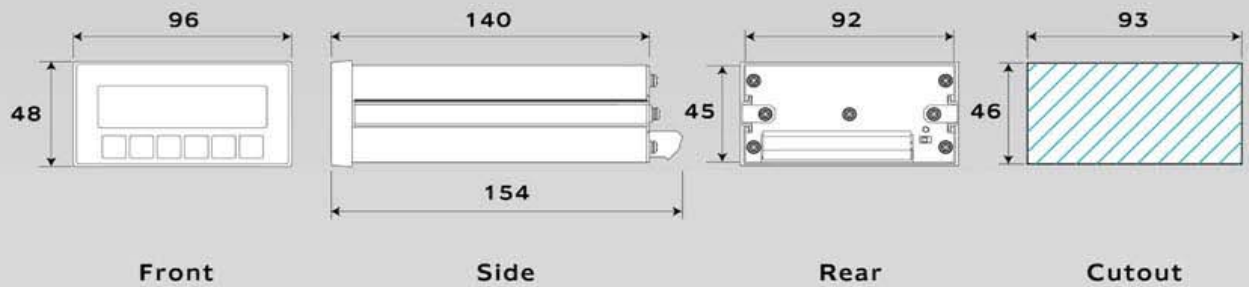
### ⊙ General

<b>Power requirements</b>	DC 12V~DC 24V
<b>Operating temperature range</b>	-10 $^{\circ}$ C~+40 $^{\circ}$ C
<b>Operating humidity range</b>	<85%R.H.
<b>Physical dimensions</b>	96 (W) x 48 (H) x 140 (D) mm
<b>Weight</b>	Approx 0.4 kg

### ⊙ Options

OP-02-1 BCD parallel output interface (Open collector output)
OP-02-2 BCD parallel output interface (TTL output)
OP-03 16 Bit Analogue current/voltage output interface (0 ~ 20 mA)
OP-04 Control I/O (4 In / 4 Out) + Setpoint In (BCD code)
OP-04E Relay Output (4 In / 4 Out)
OP-04C Hi, Lo, OK input interface (BCD code)
OP-04F Setpoint input interface (BCD code)
OP-05 Control I/O (8 In / 8 Out)
OP-05E Relay Output (8 In / 8 Out)

## Dimension (Unit:mm)



## Application & Communications



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