

# Digital Indicator with High-Performance Digital Filter



Model no.: M02

## Key Features:

- ◆ Weight display and transmit, 4 set points output function
- ◆ Peak and valley value holding for force application, retention value and real time value switched fast by the keypad
- ◆ A/D conversion rate can reach up to 960 times/second
- ◆ Support three ways of calibration: with weights, without weights, sensor sensitivity and weighing capacity
- ◆ Support tension compression load cells
- ◆ Communication interface: RS232/RS485 serial interface, nalog output interface as optional
- ◆ Optional analog output support: 4-20mA/0-20mA/0-24mA/0-5V/0-10V

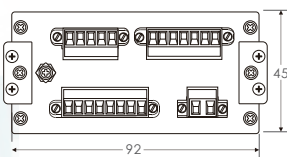
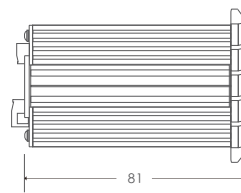
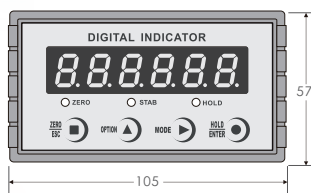
## Description:

M02 is a multifunctional indicator which is designed to meet all basic weighing needs and force measuring application, suitable for all resistance strain gauge sensors, e.g. Load Cell, force, torque and so on. High speed A/D conversion rate, with peak value, valley value, limiting value and zone setting output functions, perfectly suitable for automatic control and measuring.

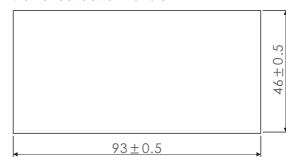
Configured with serial communication, bringing much convenience to the data network monitoring. It can be widely applied to chemical, rubber&plastic, feed, construction, and metallurgy furnace etc. as well as the applications of automatic assembly, laboratory force testing and torque measurement.

## Dimension :

Unit : mm



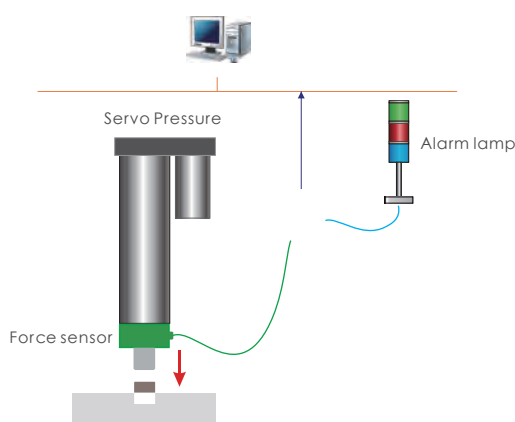
Panel cutout dimension :



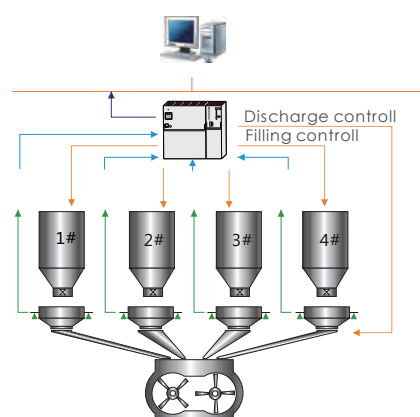
## Specification:

<b>INDICATOR POWER</b>	
Power Supply	DC24V
Power Consume	About 10W
<b>A/D CONVERTER</b>	
Type	24-bit Delta-Sigma
Analogue input range	-15mV to 15mV
Linearity	<0.01%FS
Gain Drifting	10PPM/°C
Minimum Sensitivity	0.2 $\mu$ V/d
Conversion Rate	120/480/960/s
Display Accuracy	1 / 50,000
<b>DISPLAY &amp; KEYBOARD</b>	
Display	6 digits, 7 segments, LED red
Keyboard	4 membrane switches with beeping feedback
Status Indicator	(3 LED green) Zero, Stable, Hold
<b>ENVIRONMENTAL</b>	
Operating Temperature	-10°C to 40°C
Storage Temperature	-25°C to 70°C
Relative Humidity	90% R.H without dew
IP Level	IP 65
<b>LOAD CELLS</b>	
Excitation	DC 5V
Load Cells	Drives 8pcs Load Cells 350 $\Omega$
<b>MECHANICAL DATA</b>	
Dimensions & Weight	105×81×57 mm (L×W×H) weight approx350g
Standard Mounting	Panel Mount
Certification	CE
Enclosure	ABS front panel, cast aluminum body
<b>DIGITAL INPUT</b>	
Input Number	1(Effective at low level)
Input Functions	ZERO(Pulse signal effectively), TRIGGER HOLD, ELECTRICAL LEVEL HOLD
<b>DIGITAL OUTPUT</b>	
Output Number	2(Single way driving current 500mA)
Communication Mode	STABLE, OFL, MEETING SET POINT OUTPUT
<b>OPTIONAL BOARD</b>	
A: RS485+I/O	B: RS232+I/O
C: RS485+I/O+analog output	D: RS232+I/O+analog output
E: RS485+Ethernet(Modbus TCP)	F: RS232+Ethernet(Modbus TCP)
Analog Output: 0-5V/0-10V/4-20mA/0-20mA/0-24mA(Selectable by setting the parameters)	

## Application schematic diagram:



Press fitting force monitoring



Multi-material weighing and batching in parallel internet