

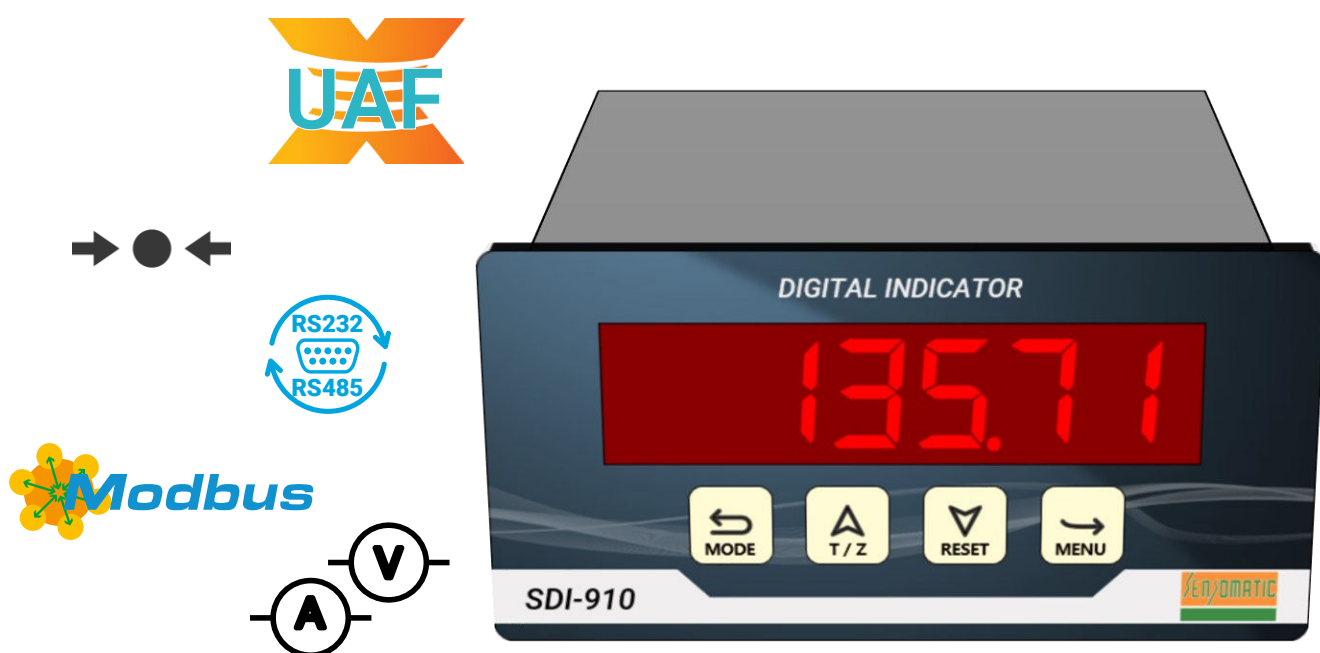
# SYNOMATIC



## *SDI-910*

**Redefining Instrumentation**

The high-quality *SDI-910* weight indicator is appropriate for a wide range of industrial and commercial applications. Its intuitive user interface is easy to use, and the *SDI-910* features *Unique Adaptive Filter (UAF)* technique with multi-point calibration gives highly reliable weight reading and faster settling. *SDI-910* embedded with high code density 32-bit processor also offer rich set of industrial standard interface including Serial, Analog, Digital inputs, Relay outputs making the indicator suitable for multiple application.



## Features

- High sample rate.
- 16M internal count.
- Unique Adaptive Filtering for faster and reliable data.
- Multipoint calibration with auto and manual mode.
- user selectable Analog interface and range.
- user selectable communication interface.
- user selectable Communication Protocol.
- Two Setpoints.
- Two opto-isolated digital input.
- Peak / valley / Data hold with front and Rear panel reset.
- Auto zeroing / dead-band.
- Panel mount metal enclosure with IP40 rating.

# SPECIFICATION

<b>ELECTRICAL</b>	Voltage	: 24VDC
	Current	: 1.5A
<b>PERFORMANCE</b>	Excitation	: 5VDC
	No. of Cells	: 16 at 350 Ω
	A/D converter Type	: 24 bit, Sigma-Delta, ratio-metric
	Internal Resolution	: 16,000,000 counts
	Display Resolution	: 999,999 counts (visible on net weight)
	Full Scale Range	: ±19.5mV bi-polar (± 3.9mV/V @ 5VDC exc)
	Conversion Speed	: 110 sps
	Input Sensitivity	: 0.29 μV/division
	Linearity	: <0.1% of full scale
	Decimal Point	: 0-3 places
	Filter	: Unique Adaptive Filtering (UAF)
Calibration points	: 2 – 8 load points	
<b>DISPLAY AND KEYBOARD</b>	Display	: 6 digit, 7 segment, LED, RED, 14 mm [0.55 in.]
	Keyboard	: 4 keys, with tactile and audio feedback
<b>INPUTS AND OUTPUTS</b>	(x2) Logic Input	: 9-24 VDC, polarity free, opto-isolated to 2.5 kV
	(x2) Relay Output	: 250VAC,5A (NO , COM)
<b>SERIAL COMMUNICATION</b>	Serial Output	: RS232 / RS485
	Baud Rate	: 2400 – 115200
	Protocol	: MODBUS RTU / SDI ASCII polling/telemetry
<b>ANALOG OUTPUT</b>	Resolution	: 12 bit DAC
	Voltage Output	: 0.02–10V
	Current	: 0–20 mA or 4–20 mA
	Linearity	: 0.05% (or better) of full scale
<b>ENVIRONMENTAL</b>	Operating Temperature	: –10°C to +45°C (14°F to 104°F)
	Storage Temperature	: –10°C to +70°C (–4°F to 158°F)
	Relative Humidity	: 40-90% RH, non-condensing
<b>ENCLOSURE</b>	Material	: Aluminium + Stainless Steel
	Dimensions	: 110 x 55 x 135mm
	Mounting	: Panel mount
	Protection	: IP40 standard
	Wiring Connections	: 3.5mm Pluggable screw terminal