

DS Indicator

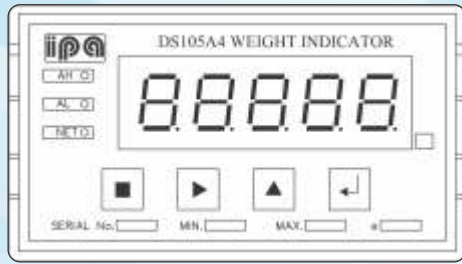
DS105A4

DS - the sleek weighing indicator is packed with a high bright LED display, high resolution 24-bit analog to digital converter, 2 relay outputs, high weighing stability, an analog output and communication ports. It has a built-in software filter to work in high vibration environments suitable for weighing in mixer, agitators and other noisy industrial environments. Housed in a metallic enclosure, this indicator is not prone to high electromagnetic fields and electrical noises

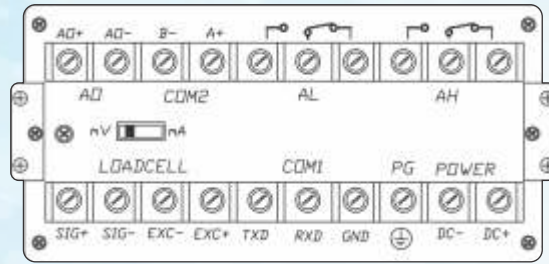
It can be used in applications like

- Hopper Weighing System
- Tank Weighing System
- Force Measurement System
- Crane Weighing System etc.,





Front view



Back view

Main Features:

- EMC design with high anti-jamming capability, suitable for industrial environment.
- 32-bit ARM CPU with 48MHz clock.
- 24-bit High-precision and high-speed Σ - A/D conversion module with 1/1,000,000 internal resolution and sampling frequency 640Hz.
- Special anti-vibration digital filtering algorithm for ensuring the weighing stability and accuracy when there is strong vibration on the platform / loadcell
- Optional Data Calibration, Segmenting Span Correction and Segmenting Weight Calculation functions.
- Auto-locking, Key-locking, Key-unlocking, Digital Setting Calibration and I/O Testing functions
- 2 digital output
- Definable analog output
- RS485 MODBUS port for connecting Host

Technical specifications

Display	5-digit 13 mm RED LED Display Display Range: -9,999~+99,999. Resolution: Programmable resolution 1, 2, 5, 10, 20, 50, 100, 200, 500. Display Resolution: 1/50,000. Programmable Decimal Point: Optional 0, 0.0, 0.00, 0.000, 0.0000. Display update time: Programmable update time 0.01~1.00s.
Keypad	4-key keypad for Menu Shortcut mode operation.
Signal Interface	Excitation Voltage/Max. Current 1: DC5V/120mA for 8-350 Ω loadcells. [mV] Signal Input Range: 0~19.5mV [Output Sensitivity of Loadcell: 1.0~3.5mV/V]. Input :0-19.5 mV. signal from loadcell/0-2.5V,0-5V,0-10V [mA] Signal Input Range: 0~20mA. Output: 4-20mA- 1 No 24-bit Σ - Δ ADC with internal resolution 1/1,000,000. Sampling Frequency: 640Hz. Special anti-vibration digital filtering algorithm. Zero Drift: $\pm 0.1\mu\text{V}/^\circ\text{C}$ RTI (Relative to Input). Gain Drift: $\pm 5\text{ppm}/^\circ\text{C}$. Non-linearity: 0.005%FS.
Switch Analog Signal Interface	Digital output: 2 no relay outputs -2 loads
Digital Communication Interface	RS485. Connectable: Host IPC/PLC and LED Remote Display.
Operating Specification	Operating Voltage: DC24V $\pm 20\%$. Max. Power Consumption: 5W. Outline Size: 107 \times 60 \times 100mm [W \times H \times D]. Panel Cut-out Size: 94 \times 47mm [W \times H]. Operating Temperature: -25 $^\circ\text{C}$ to +50 $^\circ\text{C}$. Storage Temperature: -30 $^\circ\text{C}$ to +60 $^\circ\text{C}$. Relative Humidity: Max. 85%RH. Weight: Approx. 0.3kg.

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