# Panel Mount Indicator, Touch Screen

TCP/IP Modbus RS-485

## Features:

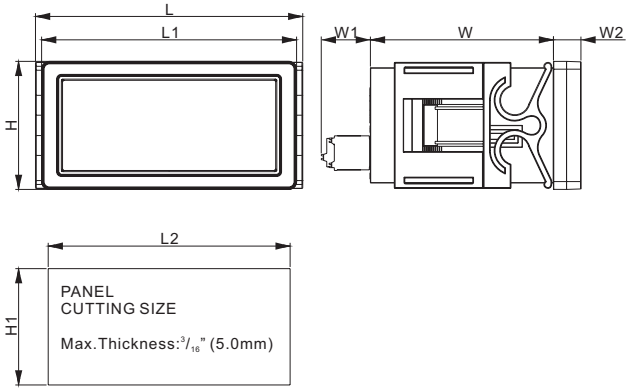
- Brilliant 3.46" color IPS touch display delivers vivide visuals and responsive control for industrial environments
- Ultra-high-speed 5kHz ADC enables fast, accurate weight capture, ideal for dynamic weighing scenarios
- Internal resolution of 16 million counts ensures exceptional precision and stability in measurement
- Simultaneous multi-output support allows seamless integration with multiple systems and protocols
- Digital communication options include RS-232, RS-485 (Modbus), Ethernet TCP/IP, and Ethernet Modbus TCP
- Analog output is also available for voltage or current-based integration
- 4 digital inputs (photocoupler) and 4 digital outputs (PhotoMOS relay) provide flexible external control and system interaction
- Password-protected calibration access safeguards sensitive setup parameters and ensures compliance
- 10-point calibration capability provides precise linearity across the full measuring range
- Dual calibration modes support both real-load an digital methods for flexible installation and maintenance
- Intuitive navigation menu reduces setup time and enhances usability with a modern, ergonomic interface

## Applications:

- Industrial weighing systems
- Process control and automation
- Force measurement and material testing
- Robotics and motion feedback systems
- Batching, filling, and packaging lines
- Machine monitoring and diagnostics via PLC integration



| SPECIFICATIONS | |
|---|---|
| **Excitation Voltage** | 5 VDC, up to 8 x 350 Ω |
| **Power Supply & Consumption** | 18 - 36 VDC; 5 W |
| **Non-Linearity** | 0.01 % FS |
| **A/D Sample Rate** | up to 5000Hz |
| **IP Rating** | IP40 |
| **Enclosure Material** | ABS |
| **Operating Temperature** | -4°F to 140°F / -20°C to 60°C |
| **Humidity** | 85 % (non-condensing) |
| **Analog Signal Input Range** | 0 - 39 mV (-19.5 - 19.5 mV) |
| **Unit Of Measurement** | g, kg, ton, lb, N, kN, kg*m, N*m, lb*in, lb*ft |
| **Analogue Output (Optional)** | 0 - 10 VDC; 0 - 5 VDC; -5 - 5 VDC; -10 - 10 VDC; 4 - 20 mA |
| **Display Type** | 3.46" color IPS LCD with touch screen |
| **Resolution** | Internal: 16,000,000 counts; Display: 99,999,999 |
| **Communication Port** | RS-232 (default); RS-485 (Modbus-RTU); Ethernet (TCP/IP&Modbus-TCP) |




## PART NUMBER

| Part No. | Default Port | Additional Port | Shipping Weight Approx. (lb) |
|---|---|---|---|
| AN310-NA | RS-232 | Analog | 0.35 |
| AN310-485 | RS-232 | RS-485 | 0.35 |
| AN310-ETH | RS-232 | Ethernet | 0.35 |

| DIMENSIONS | | | |
|---|---|---|---|
| **W** | 2.76in (70.0mm) | **L** | 4.02in (102.2mm) |
| **W1** | 0.74in (18.8mm) | **L1** | 3.84in (97.5mm) |
| **W2** | 0.41in (10.5mm) | **L2** | 3.64in (92.5mm) |
| **H** | 1.93in (49.0mm) | **H1** | 1.75in (44.5mm) |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