Series SI Smart Indicator is fully programmable and accepts all commonly used temperature or process inputs. Programming is via the front panel keys following a logical menu structure which can be set to "short" (default) for common usage features or "full" where the full range of programmable features are available. The indicator can also be programmed via a PC using the RS-485 Modbus® communication module. Password protection can be enabled to prevent any unauthorized setting changes. The Series SI features a 4-digit red LED with selectable resolution. The display can be set to indicate a fixed number of decimal places or auto scale for maximum resolution. Optional interchangeable modules for relay, 4 to 20 mA retransmission, or Modbus® RS-485 serial communication output are easily installed without the need for dismantling or recalibration. Model SI-13 Smart Indicator is designed to accept 2 or 3-wire Pt100Ω RTD or Types J, K, T, R, S, E, F, N, or custom thermocouple inputs. Temperature measurements can be displayed in selectable °F or °C. High/low scale burnout, input filtering or smoothing, and offset can be defined by the user. Select Model SI-23 Smart Indicator for process signal input. The indicator has an internal power supply to provide excitation to field transmitters. Parameters such as input type, range, engineering units, resolution, burnout condition, and filter time constant can be easily programmed.

**ACCESSORIES**

- **SI-02P**, Dual Relay Output (2 per unit max.)
- **SI-04P**, 4 to 20 mA Retransmission (1 per unit max.)
- **SI-05P**, Modbus® Communication (1 per unit max.)

**INTERCHANGEABLE OUTPUT MODULES** can quickly be connected to the Smart Indicator and are automatically recognized. Dual relay output module has two changeover relays with a common wiper. Each relay can be set as high or low alarm. Two changeover relays with a common wiper. Each relay can be set as high or low alarm. An isolated retransmission module provides 0 to 10 mA, 0 to 20 mA, or 4 to 20 mA output in active (source) or passive (sink) modes. The output can be any portion of the display. The Modbus® serial communication module allows communication with a PC for configuring or monitoring.

**SPECIFICATIONS**

**GENERAL**

- **Input/Output Isolation**: 500VAC RMS (galvanically isolated).
- **Display Range**: -9999 to 99999.
- **Output Impedance**: 200Ω RMS (galvanically isolated).
- **Excitation Current**: 4 to 20 mA, 0 to 10 mA.
- **Zero**: 0.05µV/°F
- **Full Scale**: ±0.05% full scale.
- **Thermal Drift**: Zero: 0.05µV/°F (0.1µV/°C), Span: 50ppm/°F (100ppm/°C).
- **Excitation**: 24V ±5% @ 50 mA.

**MODEL SI-23**

- **Voltage Input Range**: 0 to 1V, 1 to 5V, 0 to 10V.
- **Current Input Range**: 20 mA, 0 to 20 mA.
- **Accuracy**: ±0.05% full scale.
- **Thermal Drift**: Zero: 0.05µV/°F (0.1µV/°C), Span: 50ppm/°F (100ppm/°C).
- **Excitation**: 24V ±5% @ 50 mA.

**DUAL RELAY MODULE**

- **Contacts**: Two changeover relays, common wiper.
- **Electrical Rating**: AC: 253V; DC: 125V.
- **Maximum Load**: AC: 7A @ 250V; DC: 7A @ 30V.
- **Maximum Power**: AC: 1750VA; DC: 210W.
- **Connections**: 5-way tension clamp connector.

**4 TO 20mA RETRANSMISSION MODULE**

- **Ranges**: 0 to 10 mA, 0 to 20 mA, 4 to 20 mA (active or passive).
- **Isolation**: 500VAC.
- **Accuracy**: ±0.07% full scale.
- **Max. External Supply**: 30V (passive).
- **Connections**: 5-way tension clamp connector.

**RS-485 MODBUS® COMMUNICATION MODULE**

- **Isolation**: 500VAC.
- **Physical Layer**: 4-wire or 2-wire half duplex RS-485.
- **Baud Rate**: 19,200 or 9,600.
- **Protocol**: Modbus® RTU format.
- **Maximum Fan Out**: 32 Units.
- **Connections**: 5-way tension clamp connector.

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**Model SI-13, Smart Indicator for Temperature**

**Model SI-23, Smart Indicator for Process**

**Input/Output Isolation:** 500VAC RMS (galvanically isolated).

**Display Range:** -9999 to 99999.

**Output Impedance:** 200Ω RMS (galvanically isolated).

**Excitation Current:** 4 to 20 mA, 0 to 10 mA.

**Zero:** 0.05µV/°F

**Full Scale:** ±0.05% full scale.

**Thermal Drift:** Zero: 0.05µV/°F (0.1µV/°C), Span: 50ppm/°F (100ppm/°C).

**Excitation:** 24V ±5% @ 50 mA.

**DUAL RELAY MODULE**

- **Contacts**: Two changeover relays, common wiper.
- **Electrical Rating**: AC: 253V; DC: 125V.
- **Maximum Load**: AC: 7A @ 250V; DC: 7A @ 30V.
- **Maximum Power**: AC: 1750VA; DC: 210W.

**Connections**: 5-way tension clamp connector.

**4 TO 20mA RETRANSMISSION MODULE**

- **Ranges**: 0 to 10 mA, 0 to 20 mA, 4 to 20 mA (active or passive).
- **Isolation**: 500VAC.
- **Accuracy**: ±0.07% full scale.

**Max. External Supply**: 30V (passive).

**Connections**: 5-way tension clamp connector.

**RS-485 MODBUS® COMMUNICATION MODULE**

- **Isolation**: 500VAC.
- **Physical Layer**: 4-wire or 2-wire half duplex RS-485.
- **Baud Rate**: 19,200 or 9,600.
- **Protocol**: Modbus® RTU format.
- **Maximum Fan Out**: 32 Units.
- **Connections**: 5-way tension clamp connector.

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**CALL TO ORDER:**

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