

ISOLATED SIGNAL TRANSDUCERS

KS-505 Series for Current & Voltage Transducers

SPECIAL FEATURES :

- **Optical and galvanic isolation between input and output.**
- **High accuracy and linearity to input signal.**
- **AC or DC power supply options.**
- **High load driving capacity of output signal.**
- **Optional digital display and control relay output.**
- **Very low power consumption and heat dissipation.**
- **Option of dual outputs with isolation.**
- **Auxillary power for two-wire transducers.**
- **Configurable outputs of current or voltage**
- **Short-circuit/open-circuit protection of outputs.**
- **Front accessible zero-span calibration.**
- **Rugged industrial-grade ABS enclosure.**
- **Panel, field or hazardous area installation in IP-65 class or explosion-proof executions.**
- **Current limiting for I/O protection.**
- **Compliance to IEC 60688.1992-04, Edition-2**

MODEL NUMBERS :

KS-505A

**Voltage/Current Transducers
(230V AC Supply)**

KS-505D

**Voltage/Current Transducers
(24V/48V DC Supply)**



TECHNICAL SPECIFICATIONS :

Principle	: Optical-Galvanic Isolation and Signal Conditioning.
Input Signals	: Current (DC/AC), Voltage (DC/AC), RTD Pt-100 sensor, Thermocouple, Frequency, Resistance, strain gauge, etc.
Output Signal	: 4 to 20mA DC, 0 to 10V DC, or as required.
Load Driving Capacity	: 600 Ohms (for 4 to 20mA DC)
Output Protection	: Fully protected for open or short-circuited output
Output Current Limit	: 25mA
Linearity	: $\pm 0.1\%$
Isolation	: Between Input and Output signals.
Isolation Type	: Optical and Galvanic.
Isolation Level	: 2.2kV for one minute.
Calibration Facility	: Zero and Span setting.
Calibration Limit	: $\pm 50\%$
Accuracy	: $\pm 0.1\%$
Response Time	: <100mS to within 99% of rated output
Initial warm-up Time	: Two minutes on initial "Power On"
Indication	: Red LED for POWER ON
Power Supply	: 230V AC ($\pm 10\%$), 50Hz ($\pm 5\%$), or 24V/48V DC
Execution	: DIN-Rail/Rear-Panel/Field mounting
Enclosure	: Industrial grade ABS (for panel mounting) High impact glass reinforced polyester (for field Mounting) Cast Aluminum Alloy LM6 (For hazardous area installation)
Dimension	: 75mmH X 55mmW X 110mmD (for DIN-Rail mounting)
Weight	: Approximately 0.4Kgs.
Operating Temperature	: 0 to 55°C