



KL-620

KL-620 μ PA SENSORS
Microcomputer Sensing Control Equipment



- *Industrial-standard sensors and transducers*
- *With RS-232 interface*
- *Open-ended design, ideal for expansion*

The KL-620 Microcomputer Sensing Control Equipment is a complete system for monitoring and controlling industrial processes. It features a microcomputer-based control system with a large number of channels, each equipped with a high-precision sensor and transducer. The system is designed for easy expansion and integration with existing equipment. It is available in a rack-mounted format or as a desktop system. The KL-620 is ideal for applications requiring high accuracy and reliability.





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(6) The Application of a Strain Gauge.

(7) Current & Proximity Sensor

(8) Principle of a Magnetic Device

(1) Characteristics and Applications of Pyroelectric Detector

(2) Characteristics and Applications of Reed Switch

(3) Characteristics and Applications of Thermal

KL-842

KL-843

KL-844



KL-620

KL-64012: RTD (PT-100) Sensor

- (1) The Characteristics of Resistance Temperature Detector (RTD).
- (2) The Construction of a Pt-100.
- (3) The Characteristics of a Pt-100.
- (4) The Transduction Circuit of a Pt-100.
- (5) The Application of a Pt-100.

KL-64013: Level (Water) Sensor

- (1) The Digital Circuit. (2) The Principle of the Level Control.

KL-64014: Fiber Optics Communication

- (1) The Construction of the Optical Fiber and the Characteristics.
- (2) Fiber Optical TRANSMITTER and RECEIVER.

KL-64015: LVDT Sensor

- (1) The Construction of an LVDT.
- (2) The Characteristics of an LVDT.
- (3) The Signal Conditioner for an LVDT.
- (4) The Applications of an LVDT.

KL-64016: Rotation Angle Sensor

- (1) Principles and Application of Rotation Angle Sensor.

List of Modules

STANDARD MODULES: KL-64001 ~ KL-64008

KL-64001

- (1) Photo Transistor
- (2) Photo Interruptor
- (3) Magnetic (Hall-Effect) ~ Digital
- (4) Magnetic (Hall-Effect) ~ Analog
- (5) Accessories: Magnet, 1PC
(For KL-64001 and KL-64002 uses)

KL-64002

- (1) Pyroelectric Detector
- (2) Reed Switch
- (3) Thermistor
- (4) Mercury Switch

KL-64003

- (1) Limit Switch
- (2) Various Switch
- (3) Condenser Microphone
- (4) Dynamic Microphone

KL-64004

- (1) Gas/Smoke Sensor
- (2) Ethanol Sensor

KL-64005

- (1) IC (AD590) Temperature Sensor
- (2) Humidity Sensor
 - a. Humidity transducer rated voltage: 1 Vp-p AC
 - b. Frequency range: 100Hz ~ 10KHz
 - c. Temperature range: 0°C ~ 60°C
 - d. Humidity range: 20%RH ~ 90%RH
 - e. Impedence: 13KΩ (70%RH at 25°C)

KL-64006

- (1) Infrared TX/RX Sensor
 - a. Infrared Transmitter: emission intensity: 12mW/sr
(If = 50mA)
emission wavelength: 940nm
(If = 50mA)
 - b. Infrared receiver: sensitivity wavelength: 1000nm
- (2) Ultrasonic TX/RX Sensor
 - a. Nominal frequency: 40KHz

KL-64007

- (1) Pressure Sensor
 - a. 0-7 psi to 0-30 psi pressure ranges
- (2) Strain Gauge
 - a. Maximum payload: < 5kg
 - b. Terminal resistance: 350 ± 50 ohm
- (3) Accessories:
 - a. Suction pump, 1PC
 - b. Plastic tube: 25cm, 1PC

KL-64008

- (1) Hall Current Sensor
 - a. Normal input current: ±3A DC (if)
 - b. Linear range: 0 ~ +6A DC
 - c. Output voltage: 4.5V ± 0.005V at +if, 0.5V + 0.005V at -if, R_L = 10KΩ
- (2) Proximity Sensor
 - a. Operation voltages: 10 ~ 30V DC
 - b. Short circuit protection
- (3) Accessories: Proximity switch 1PC

Accessories (KL-68013)

- (1) Experimental Manual
- (2) Connet Leads: A. 2mm-0.65mm, 5pcs
B. 2mm-2mm, 10pcs

OPTION MODULES: KL-64009 ~ KL-64016

KL-64009

- (1) CDS Sensor
- (2) Photovoltaic Sensor
 - a. Photovoltaic transducer open voltage ≈ 2V
 - b. Photovoltaic transducer close voltage ≈ 0.06 μA/lux

KL-64010

- (1) V/F Converter
 - a. Input voltage: +10mV ~ +10V
 - b. Output frequency: 5Hz ~ 5KHz, 10Hz ~ 10KHz

KL-64011

- (1) F/V Converter
 - a. Input frequency: 0 ~ 4.3KHz (±0.2Vp ~ ±5Vp)
 - b. Output voltage: 0 ~ 4.3V DC

KL-64012

- (1) RTD (PT-100)
 - a. 0°C: 100Ω, 100°C: 139.16Ω
 - b. Rating: 250°C
 - c. Accessories: PT-100 Sensor Probe

KL-64013

- (1) Level (Water)
 - a. Simulation of the the reservoirs control status (motor included)
 - b. Accessories: plastic case

KL-64014

- (1) Fiber Optics Communication
 - a. Power launched versus fiber length:
 - (1) 0 ~ 28M (If: 100mA)
 - (2) Type: P: 1μW; L: 13M; Ir: 100mA
 - b. Accessories: Optical fiber cable

KL-64015

- (1) LVDT
 - a. Range: ±5mm
 - b. Scale: 0.01mm
 - c. Optimum frequency: 50Hz ~ 1.1KHz (Nominal: 350Hz)

KL-64016

- (1) Rotation Angle Sensor
 - a. 10 turns (3600°) precision potentiometer