

KVIEW100

Field Indicator and Controller

Multi-channel controller with MODBUS RTU communications K-TEK Products



Introduction

The KVIEW100 can accept and power eight 4-20 mA DC analog signals and four pulse inputs. The KVIEW100 offers the ability to display up to eight channels in engineering units with corresponding bargraphs. The bar graphs can be independently scaled to any engineering units.

- The nine relay outputs can be assigned in any combination to any input channel. The relay outputs can be used for alarms, pump controls and /or electric actuator control.
- Two 4-20 mA DC outputs can be scaled to any two inputs. The “override” feature allows the unit to automatically switch between two process variables as the control input.
- The 10 amp rated contacts can be setup to vary the pulse width and time between pulses. Any relay may be programmed for a scaled pulse output from the pulse input.

Features

- MODBUS RTU communications
- Ability to read 8 ea. 4-20 mA DC inputs & 4 ea. pulse inputs
- Relay outputs with adjustable dead band
- Output Relays may be setup for variations in Pulse width & time between pulses
- 2 ea. 4-20 mA DC programmable outputs
- 9 relay supervisory or summary alarm
- Large bar graphs

- Easy to configure & use
- Automated sensor calibration, menu driven setup, PC configurable, tag names
- Summary page showing: engineering Value, sensor input (mA or Hz) alarm set points & status
- Display digits in any engineering units
- Universal supply voltage : 8-30 vdc and 120 vac std
- Transient voltage protection
- Large transfective display makes it easy to read indoors or in direct sunlight

Applications

- Digital readouts for tank level, pressure & flow rates
- Suction & discharge pressure display and control
- Timed pulsed outputs for injection choke control
- Output to throttle valves to regulate tank level & pipeline pressure
- Tank level indication and pump control
- Temperature display & control
- Flow rate display & controller
- General purpose indication with alarming capability
- PID control

KVIEW100 SPECIFICATIONS

- POWER: 102-140 VAC @ 60Hz or 8-30 VDC (20 Watts min.)
- ANALOG INPUTS: (8) 4-20 mA Inputs, The DV-10 can supply the loop current for 2-wire loops
- PULSE INPUTS: (4) ea amplitude, 100 mV to 15 V, frequency range: 0.1 Hz to 50 kHz
- ANALOG OUTPUTS: (2) 4-20 mA, Non-Isolated; Output
- Loop Impedance 0- 300 ohms (assuming + 12 vdc is the minimum voltage of transmitter)

RELAYS:

- OUTPUTS: (9) total w/ 100% adjustable deadband
- SETTINGS: May be set normally open or closed with any combination of lows or highs
- ASSIGNMENTS: Any number of contacts can be assigned to any channel
- PULSE RELAYS: Any relay can be setup for a scaled pulse output from the pulse input.
- CONTACT RATING: 10 AMPS @ 120 vac

DATA DISPLAY: (6) Full digits

CHANNEL DISPLAY: Full graphics Backlit

PROGRAMMABLE RELAYS: Adjustable pulse width, time between pulses and time delays

ENGINEERING UNITS: Feet, Inches, Ounces, PSI, GPM, LBS, Barrels, Meters, Cubic Meters, Gallons, deg F, deg C, PPM, % Level, % Volume with user definable units

OPERATING TEMP: -20 to 120°F / -29 to 49°C

SHORT CIRCUIT PROTECTION: Analog inputs are individually fused

LIGHTING PROTECTION: Analog inputs have chokes & TVS's, Power inputs have MOV's and are fused

TERMINALS: 5.08 mm (0.2") Plug on

TROUBLE or SUMMARY ALARM: 9th relay will engage if the following occurs-CPU failure, Loss of power, Loss of transmitter input or if a transmitter is out of acceptable range—As a Summary Alarm it will engage if the other relays are engaged

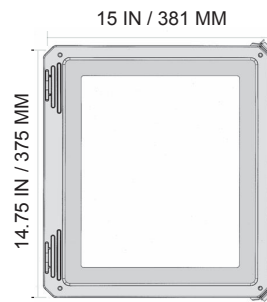
BARGRAPHS: (1) per channel

PRESSURE/RATE OVERRIDE: Programmed in the setup procedure

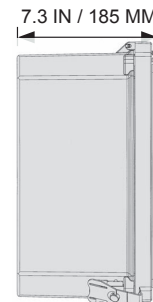
DIMENSIONS: 8.0"W x 7¼"L x 3.0"D Panel Mount

MODELS AVAILABLE:

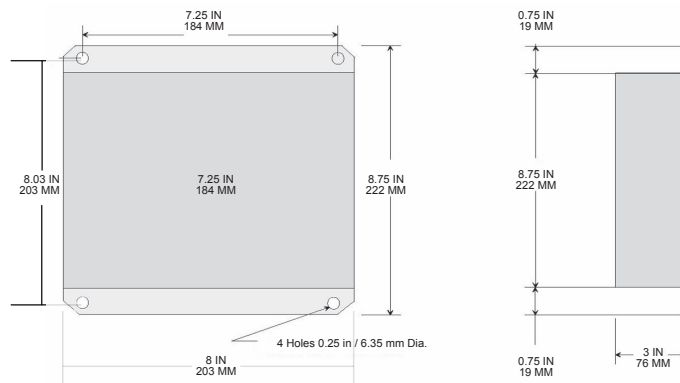
KVIEW100	Panel Mount
KVIEW100E	Mounted in NEMA 4X Fiberglass enclosure with clear viewing window



KVIEW100E
Optional Housing
Front View



KVIEW100E
Side View



KVIEW100 Dimensions Panel Mount

For more information, please contact:

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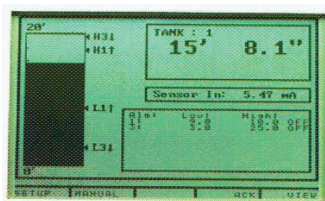
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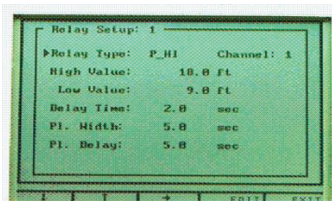
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VIEW SCREEN FOR
EACH CHANNEL



SAMPLE SCREEN FOR
RELAY SETUP

Power and productivity
for a better world™

