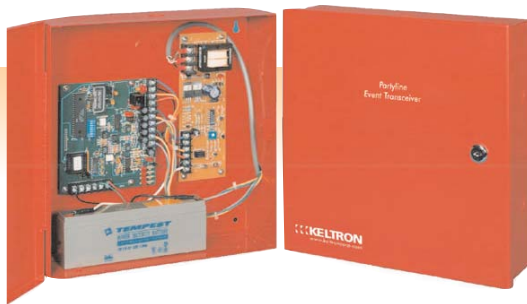


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Datasheet

KELTRON

Keltron PET604/608 Distributed Multiplex Transceiver



Enables faster event communication

Reduces capital expense

Increases operator accuracy

Keltron's PET604 and PET608 are two of a series of distributed-multiplex, addressable transceivers that provide a low cost and reliable method of protecting a wide range of proprietary, commercial, and industrial buildings and complexes.

The Keltron PET604/608 provide ultimate flexibility for campus or multiple building facilities as they contain both input-monitoring circuitry and full fiber optic communication capability. A system combining multiple PET modules can provide monitoring for up to 2048 contact points across long distances.

Keltron PET604/608 benefits

Flexibility - compatible with any FACP or device with relay outputs

Scalability - system of multiple PET modules can monitor thousands of contact points

Reliability - fiber optics are lightning proof and provide long term protection from wear and weather

High Performance - high-performance error-detection during serial, multiplexed signal transmission

Keltron PET604/608 features

- Compact and easy to install
- Distributed-multiplex operation includes individually addressable inputs
- Contains two independent fiber optic ports
- Includes two independent ports for NFPA 72 signaling line circuit classes A or B to style 7
- Contains 4 or 8 inputs per module - EOL resistor-supervised
- Unique 3-resistor monitoring enables monitoring of up to five conditions per input
- Fiber optic signaling provides isolation and high noise rejection
- Wide range low power input - 10.8-25V at 90mA
- Runs from FACP power with no compromise of ground fault detection
- Runs from FACP power while maintaining isolation between separate FACP's on the fiber backbone
- Enclosure may include optional tamper switch whose condition is reported to the host

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Specifications

Input: 4 or 8 zones - field-selected networks allow choice of NO or NC contacts - relays, FACP contact outputs, security points

Communications: Dual port, NFPA Style 7 distributed multiplex

Multimode fiber optic interface:

850 nm wavelength

ST connectors

Receiver sensitivity -25.4 dBm

Output power (typical)

-14.8 dBm into 50/125 fiber

-11.0 dBm into 62.5/125 fiber

-5.5 dBm into 100/140 fiber

Distance between transceivers:

10,000 feet typically attainable with 62.5/125 fiber. Always allow a 2 dB safety margin in all calculations.

Example:

With 62.5/125 fiber, the Optical Power Budget is 14 dB (25 dBm Receiver sensitivity -11 dBm Output power). Allowing 2 dB for connections and splices, 2 dB for the safety margin and 3 dB/Km cable attenuation (14 dB - 2 dB - 2 dB)/3 dB per Km = 3.3 Km or ~10,800 feet.

Other fiber sizes will yield different results.

End-of-line resistor types:

Single resistor: Keltron network - H (fire applications) complies with UL style A

Dual resistor: Keltron network A (2 alarm level applications) complies with UL style A

3 resistor: Keltron network D or E for 5 state reporting

Power: 1. DC 10.8 - 25 VDC, 90 mA
2. AC 108-132V RMS, 0.1A

Mechanical: 4.8" x 5.2" PC board - not including AC PS/battery charger, mount inside FACP - red or tan 14"H x 17"W x 4"D in a Keltron PETBX wall mounting enclosure
A Keltron PETENC enclosure that holds 4 units is also available.

Status LEDs (field-enabled for power conservation)

4 LEDs indicate - Power On, Transmit, Receive, Input abnormal

Environmental: Temperature range 0° to 49° C, humidity is 0 to 85% non-condensing

Shipping Weight: Keltron PETBX = 6 lbs each
Keltron 95M3181 (4 zone) or 95M3182-1 (8 zone) PC boards (DC) = 1 lb each
Keltron 95M3181/95M3193 (4 zone) or 95M3181-1/95M3193 (8 zone)
PC boards (AC) = 2 lbs each set

Keltron develops and manufactures universally-compatible, UL listed life safety event management systems for the municipal and proprietary markets. Solutions include Ethernet signaling systems, active network radio systems, distributed multiplex systems, digital communicator/receiver systems, and direct wire systems. This document is not intended for installation or maintenance purposes. All specifications are subject to changes without notice. For more information visit www.keltroncorp.com or contact us at 781-894-8710.

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