TEK3 TekMonitor

70004 Data Sheet

The TEK 3 is the third generation of TekMonitor series of networked A/V controllers, adding greater flexibility by allowing control of additional peripheral devices and communication with other TEKVOX controllers and software applications. TekMonitors are designed as monitored, distributed control systems, with device drivers and asset management. Energy savings are further improved by its interface for 12 or 24V occupancy sensors, which simplify room automation. The added TekBus RS-232/485 serial interface provides communication and power to a touchscreen or external sensor/communication module.

TekMonitors are easily configured using TekWizard, a component of the TekManager software suite, and the TekEzLink protocol allows simple no-polling serial communication with TekMonitors or 3rd-party control systems.

Features:

- Anti-theft protection for connected displays with TekSecurity
- Occupancy-based room automation using 12 or 24V sensors
- 3 RS-232 ports, flexible digital I/O, and IP communication with up to 8 devices
- Scheduled usage reports, event scheduling, and lamp, filter & maintenance timers
- Supports isolated PoE (IEEE 802.3af-compliant) and DHCP IP configuration
- Up to 50 macro definitions with programmable logic for advanced, intuitive operation
- Device management & seamless integration w/ TekEnterprise™ Management System

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Ethernet Interface	RJ45 Female
Data Rate	10/100Base-T, half/full duplex w/ auto-sensing
Network Protocols Supported	DHCP, ICMP (ping), TCP/IP, UDP, Telnet, SMTP
TekSecurity Interface (COM 1)	RJ12 Female modular connector
Serial Control	RS232 serial TX & RX
Security Input	ESD-protected input w/ internal 10kΩ pull-up resistors
LED Output	Open-collector Darlington w/ 300mA @ 24V
Pull-up	2.7kΩ 1/4W resistors connected to 24V (9mA)
COM Interface (COM 2)	3-position Phoenix Connector
Serial Control	RS232 serial TX & RX w/ earth ground interface
TekBus Interface (COM 3)	4-position Phoenix Connector
Serial Control	RS485 or RS232 serial TX & RX w/ earth ground interface
Power Output	Selectable 12 or 24V DC output, 350mA max output
Occupancy Sensor Interface	3-position Phoenix Connector
Input	ESD-protected w/ internal 10kΩ programmable pull-up/down resistor
Power Output	Selectable 12 or 24V DC output, 350mA max output
Flexible I/O 1 & 2 Interface	3-position Phoenix Connector
Flexible I/O 1 & 2	Programmable as digital inputs, outputs, or IR transmitter
Logic Input Mode	ESD-protected inputs w/ internal 10kΩ pull-up resistors, Logic High 2V & Logic Low 0.8V
Digital Output - Positive Drive	Open-collector Darlington's w/ 300mA @ 24V sourced to ground
Digital Output - Open Source	2.7kΩ 1/4W pull-up resistors connected to 24V (9mA)
Digital Output - Serial Output	TX w/ 0-12V or 0-24V modes, configurable to drive IR transmitter
General	
DC Power Supply (optional)	100-240VAC, 47/63 Hz, 0.5A, 15W
Power over Ethernet (PoE)	48VDC @ 350mA, supports PoE, PoE+ & IEEE802.3af standards
DC Power	24V DC, idle current of 60mA, max current of 650mA
Temperature	32 ~ 122°F (0 ~ 50°C)
Humidity	10 ~ 90%
Enclosure Type	Aluminum
Product Dimensions	1" (25.2mm) x 6.9" (175mm) x 3" (7.59mm)
Product Weight	0.36 lbs. (160g)
Compliances	FCC Class B, Canadian ICES-003, CE
MTBF	30,000 hours

Specifications are subject to change without notice