99332

IOT-08-DC, IP Alarm Communicator with Dialer Capture

Features:

- Can be connected to standard fire panels with dry contact outputs, Contact-ID compatible DACT, or serial interface
- System parameters can be easily programmed by Android, iOS, or Windows mobile device or laptop.
- Built-in point reporting via Ademco Contact-ID compatible dialer capture module
- Point reporting via on board universal intelligent serial interface transmits user-programmed point labels, eliminating the nee to reprogram device labels at the head end
- 8 Input Zones that can transmit Emergency Response signals such as Fire, Police, Medical, Supervisory, etc. expandable to 64 zones
- Integral AC line power with backup battery management or +24 VDC power from FACP
- Two on-board relays for control functions with support for up to 64 additional relays that can be individually controlled
- Cellular, WiFi, Ethernet communication paths supported with automatic on-the-fly selection of multiple cellular carriers
- Robust cybersecurity supports 4 rotations of 2K-bit Advanced Encryption Standard hardware / software encryption with TLS security
- VoIP channel for MNS applications
- UL864 ETL listed, FM approved. Meet and exceeds NFPA 72

iOT-08-DC

IP Emergency Event Communicator

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Description:

The IOT-08-DC IP Alarm Communicator with Dialer Capture is a self-contained Auxiliary Signaling Device that captures point specific event data from Ademco Contact-ID compatible DACT devices, serial ports, dry contacts and transmits encoded emergency event messages using secure IoT technology. The IOT transmitter communicates automatically over Ethernet, WiFi, and cellular with automatic media path and carrier selection. The IOT-08-DC also supports an intelligent universal serial interface that will work with any FACP and transmit FACP printer data including custom user labels, which eliminates the need to re-program the point tables at the head end. The IOT-08-DC is contained in a NEMA-1 cabinet and derives power from a 120 or 240 VAC branch circuit and maintains a 12V backup battery for secondary power, or can be powered from the +24 VDC output of any FM or UL listed FACP. Programming is easily accomplished in the field using a standard Android or iOS mobile device. The IOT-08-DC supports up to 64 relays that can be controlled locally or from the head end, and a VoIP channel for wide area MNS applications. MNS messages can be stored in the KCi Secure Cloud or on the GUI 2.0 workstation, and initiated via workstation or mobile device along with live voice paging.

Operation:

The IOT-08-DC communicator utilizes state of the art Internet of Things (IoT) technology to generate an alarm message based on input conditions and transmit the message to the KCi secure cloud using wired Ethernet, WiFI, or hardened cellular communications paths. Event data can be point specific using the Ademco Contact-ID dialer capture or intelligent universal interface, or conventional using 8 on-board dry contact input zones. Custom user programmed point labels from a compatible FACP can be captured via the intelligent serial port and displayed at the KCi workstation without having to be reprogrammed at the head end. When an alarm condition is validated the IOT-08-DC transmitter builds a secure encrypted alarm message based on the specific input activation which is then transmitted on wired Ethernet, WiFi, and hardened cellular communication channels with automatic carrier and media selection. Four rotations of 2K-bit hardware encryption is used for enhanced communication security. The IOT-08-DC continuously scans for and will automatically select the cellular carrier with the strongest signal, and supports ATT, T-Mobile, Verizon, US Cellular, and most other carriers. A one-way VoIP channel supports MNS messages and live voice paging that can be initiated from the KCi workstation or mobile device app, allowing for wide area MNS ro be controlled from a central location redundancy.

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Specifications:

Alarm Interface:	
Monitored Dry Contact Inputs:	8 (each input monitors ONE dry contact)
Ground Fault Detection Resistance:	<100 Ω
Input Termination Resistance:	10 Ω
Dialer Capture Interface:	Ademco Contact-ID Compatible
Ring Voltage:	48 VDC
Intelligent Data Port	RS-232
AC Power Input (Input)	
AC Voltage Range	120/240 VAC Nominal, Single Phase
AC Frequency	50-60 Hz
AC Current Draw	<0.5 A
AC Fuse	2A Glass 5mm x 20mm
Backup Battery Type	Sealed Lead Acid, Pure Lead Acid, Lithium
Backup Battery Voltage	12.0 V Nominal
Backup Battery Standby Duration:	>96 Hr (7.0 AH or 5.0 AH, using KCi PN 17014)
Backup Battery Recharge Time:	<24 Hr
Battery Fuse:	2ASB
Current Draw:	
Standby Current Draw:	0.167A
Alarm Current Draw:	0170A
Communication:	
Media:	Cellular 5G/LTE/4G/3G/2G, Ethernet, WiFi 24/5Ghz
Carriers:	ATT/FirstNet, T-Mobile, Verizon, US Cellular auto-selecton
Environmental:	
Temperature Range - Operational:	0°C-50°C (32°F-120°F)
Temperature Range - Storage:	-20°C-70°C (-4°F-158°F)
Humidity:	<95% non-condensing

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Ordering Information:

KCi #	Model #	Description
99332	IOT-08-DC	IOT (IP) Transmitter with Dialer and Serial Capture and 8-Zones, 120/240 VAC
Options		
66330	ELT-08-RM	8-Zone Dry Contact Input Expander Module
66330	IOT-08-RM	8-Zone Relay Expander Module
17200	PS1270	Battery, 7AH, 12V, Standard Lead Acid Gel
91421-IOT-25	IOT-ANT-25	IOT External antenna Kit, 25ft. Coaxial Cable
91421-IOT-50	IOT-ANT-50	IOT External antenna Kit, 50ft. Coaxial Cable
91421-IOT-75	IOT-ANT-75	IOT External antenna Kit, 75ft. Coaxial Cable
91421-IOT-100	IOT-ANT-100	IOT External antenna Kit, 100ft. Coaxial Cable
91234-IOT	IOT-R	Retrofit Kit for KFRTI-8/8S Legacy Transmitter

Installations:

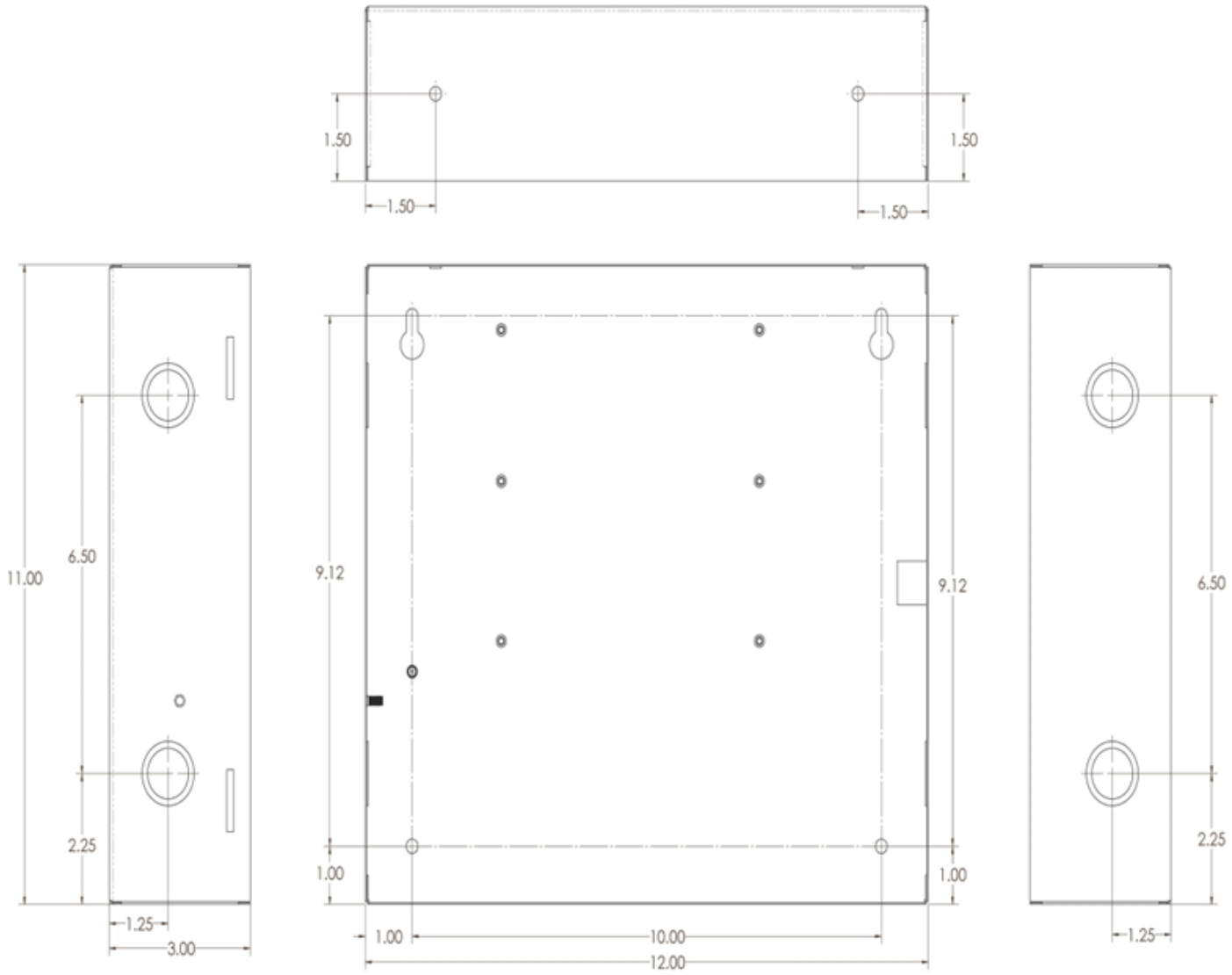
- All installations shall comply with NFPA-72 and NEC-760 requirements and best practices

Kingfisher Company, inc., products must be used within their published specifications and must be PROPERLY specified, applied, installed, operated, maintained and operationally tested in accordance with their installation instructions at the time of installation and at least twice a year or more often and in accordance with local, state and federal codes, regulations and laws. Specification, application, installation, operation, maintenance and testing must be performed by qualified personnel for proper operation in accordance with all of the latest National Fire Protection Association (NFPA), Underwriters' Laboratories (UL), National Electrical Code (NEC), Occupational Safety and Health Administration (OSHA), local, state, county, province, district, federal and other applicable building and fire standards, guidelines, regulations, laws and codes including, but not limited to, all appendices and amendments and the requirements of the local authority having jurisdiction (AHJ).

NOTE: Due to continuous development of our products, specifications and offerings are subject to change without notice in accordance with Kingfisher Company, inc., standard terms and conditions

IOT-08-DC, IP Alarm Communicator with Dialer Capture

Drawings and Diagrams



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