



## I-SAD 19" & I-SAD 19"-S

Modular IP Security Access Device

- ✘ Free editable READ/WRITE communities
- ✘ Connection of Temperature and/or humidity sensors
- ✘ Additional remote – switch on unit optional available
- ✘ Line redundancy via optional GSM/GPRS transmission (when MGSM module equipped)



The I-SAD 19" & I-SAD 19"-S enables a remote control center to manage and supervise various in- and output criterias from subsidiaries.

### Introduction

The I-SAD 19" & I-SAD 19"-S device are modular telecontrol systems that transmit alarm signals, and telemetry data to a dedicated central network management center. The transport is via copper or fiber optic lines. For redundancy, the network connection can also be realized via GPRS (GSM) wireless link.

Two slot for different interface modules are available for connection to various alarm systems, fire detection systems, sensors or other similar devices over parallel inputs and for signalling on parallel outputs. The integrated switch on the I-SAD 19"-S provides VLAN functionality.

The built-in asynchronous RS-232 interface provides access to third party equipment. The management of the I-SAD 19" devices is realized by SNMP, integrated WEB-server and WEB Operator Interface (WEB-OPI) or local CLI.

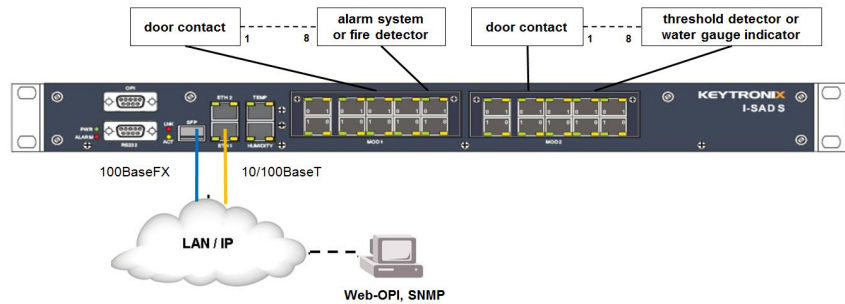
### Features

- up to 2x 10/100 BT network interfaces
- 1x 100FX network interfaces (SFP)
- 2 slots for different interface modules
- Up to 16 parallel I/O ports per module
- Enables access to third party equipment via asynchronous RS232 port
- Management options: SNMP, DHCP client, WEB-GUI, local CLI
- Up to 3x destination addresses for SNMP-traps are settable
- Free editable READ/WRITE communities
- Integrated wide range power supply (48V DC ... 230 V AC)
- Form factor: EIA19", 1RU
- Number of I/O can be increased by using of external Alarm Extender (AlEx)



## Application Example

I-SAD 19" & I-SAD 19"-S enables a remote control center to manage and supervise various in- and output criterias from subsidiaries.



## Technical Specifications

### Network I/F (LAN)

I-SAD 19":

- 2x 10/100BaseTx
- Connector: RJ45

I-SAD 19"-S:

- 2x 10/100BaseTx (RJ45)
- 1x 100BaseFX:
  - ⤷ Line code: 4B/5B
  - ⤷ Pluggable SFP types
  - ⤷ Connector: SFP
- Ethernet Switch:
  - ⤷ Up to 1024 MAC addresses
  - ⤷ MTU: 1522 bytes
  - ⤷ VLAN according to 802.1p/Q
  - ⤷ Max. 64 different VLAN entries
  - ⤷ VLAN-ID: 0 - 4095

### Service I/F

- Temperature I/F (for specific equipment)
  - ⤷ top and bottom threshold settable; analog indication (temp. range: -20...+80°C)
  - ⤷ Connector: RJ45

- Humidity I/F (for specific equipment)
  - ⤷ top and bottom threshold settable; analog indication
  - ⤷ Connector: RJ45
- Other Service Modules according to the following overview

### Management

- SNMP, integrated WEB OPI, Telnet
- Settable up to 3x destination addresses for SNMP Traps
- Free editable READ/WRITE communities (Trap names)
- DHCP client
- CLI/OPI (local management I/F)
  - ⤷ Asynchronous RS232
  - ⤷ Transfer rate: 115k2/8/N/1 (default)
  - ⤷ Connector: D-SUB9 (female)
- RS232 I/F (connecting third-party-system)
  - ⤷ Asynchronous RS232
  - ⤷ Transfer rate: 115k2/8/N/1 (default)
  - ⤷ Connector: D-Sub (female)

- ⤷ Port specific IP address settable

- Access to third-party systems via Telnet

### Switch

- VLAN functionality
- 64 VLAN entries

### Environmental

- Operating: -20 to +70°C
- Storage: -20 to +70°C
- Humidity: max. 80%, non-condensing

### Power

- 48 VDC - 230 VAC (wide range)
- Protection class I

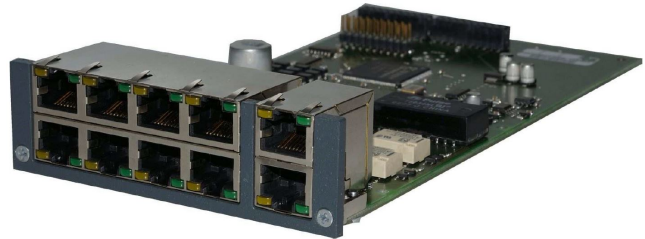
### Physical

- Weight: 2.0kg
- Dimensions (H x W x D):
  - ⤷ 45mm x 440mm x 205mm
- Form factor: EIA 19", 1RU



### I-SAD MI/O Module - Specification

- I/O ports
  - ⤿ 8x parallel loop controlled Inputs (non-potential-free)
  - ⤿ 8x parallel bistable Output (potential-free)
  - ⤿ Allow switching of extra low voltage circuit signals only (accord. to EN 60950: SELV circuit)
  - ⤿ Connector: 8x RJ45 (Pin 1,2-Input; Pin 6,7,8-Output)
- Alarm contact
  - ⤿ 2x parallel Outputs (potential-free)
  - ⤿ Connector: 1x RJ45 (Pin 1,2-local alarm, Pin 7,8-remote alarm)
- 1x PDH port
  - ⤿ Standart: ITU-T G.703
  - ⤿ Data rate: 64 kbps, codirectional
  - ⤿ Impedance: 120 Ohm
  - ⤿ Connector: 1x RJ45



### I-SAD MI 16 D-Sub - Specification

- I/O ports
  - ⤿ 8x parallel loop controlled Inputs (non-potential-free)
  - ⤿ 4x parallel bistable Output (potential-free)
  - ⤿ Allow switching of extra low voltage circuit signals only (accord. to EN 60950: SELV circuit)
- Alarm contact
  - ⤿ 2x parallel Outputs (potential-free)
- PDH port
  - ⤿ Standart: ITU-T G.703
  - ⤿ Data rate: 64 kbps, codirectional
  - ⤿ Impedance: 120 Ohm
- 24V Output for peripherals (max. 40mA)
- Common Connector: D-Sub37 (female)





### I-SAD MCC (Cabinet Control) - Specification

- 2x door lock sensor ports
  - ⤴ 24V (100mA) for door lock sensors
  - ⤴ "Unlock-duration" and "Unlock-timeout" are settable
- 2x entrysensor ports (position of door eopener - open/closed)
- Connector: 4x RJ45
- For vendor specific peripherals only!

External peripherals can be connected via RJ12 connectors



### I-SAD M 8-SEN - Specification

- 8x Sensor Input (RJ45)
  - ⤴ Connect to I-SAD TS
  - ⤴ Connect to I-SAD HS
- Pluggable module for I-SAD 19"-S





### I-SAD Humidity Sensor (HS) - Specification

- Humidity range: 10%...90% (20°C ± 5%)
- Connecting cable length: max. 2 metres
- Cable Type: 1:1 patch cable RJ45
- For usage on I-SAD "HUMIDITY" port only
- Connector: 4x RJ45
- Environmental
  - ⤿ Operation: -20°C...+70°C
  - ⤿ Storage: -20°C...+70°C
  - ⤿ Humidity: max. 80%, non-condensing
- Dimension: 55,2(W) x 25,1(H) x 30,0(D) mm



### I-SAD Temperature Sensor (TS) - Specification

- Temperature range: -20°C...+70°C
- Resistance value: 10 kOhm (25°C ± 3%)
- Connecting cable length: max. 2 metres
- Cable Type: 1:1 patch cable RJ45
- For usage on I-SAD "TEMP" port only
- Connector: 4x RJ45
- Environmental
  - ⤿ Operation: -20°C...+70°C
  - ⤿ Storage: -20°C...+70°C
  - ⤿ Temperature: max. 80%, non-condensing
- Dimension: 55,2(W) x 25,1(H) x 30,0(D) mm

