



**Technical Specification**  
**MULTY-CHANNEL CONTROLLER**  
**UPES-50**

**Electrical characteristics**

Power supply	Isolated, standby mode
Supply voltage range	From 110V to 270V AC/DC
Detectors' power supply	From threshold device / UPS
Power consumption	≤ 150W

**Detectors Connection**

Quantity (max)	≥ 128 pcs
Type of detectors	Each alarm loop contains up to 16 detectors of different types (SGOES, SSS-903, IPES IR/UV, IPES IR3) with unified signal (RS-485, Modbus RTU) at the output of threshold device
Modular blocks/detectors	3U x 19" standardized housing with 8 modular (≤16 detectors)
UPES connection to PC	STP

**Operation and adjustment**

Refreshment period (with max connection quantity of detectors)	≤ 6 sec
Configuration management	On default/ users, nonvolatile turning memory(power supply fault protection)
Controller adjustment	Automatic/manual (including functioning device parameters settings and different types of search)
Detectors adjustment	Automatic/manual -automatic type identification -detector's parameters setup mode -gas analyzer calibration mode

## Output signals

RS-485 Modbus RTU compatible with PLC's, SCADA & DCS systems

Three relays (dry contact) with programmable threshold level with indication

One relay for fault condition

## Digital Interface

English

Rate of exchange

programmable

Between UPES and detectors

From 1200 Baud up to 19200 Baud (on default – 9600 Baud)

on upper level

From 4800 Baud up to 115200 Baud (on default – 9600 Baud)

## Indication

Power-up +24V DC

 green diodes

Programmable signaling thresholds actuation

 red diodes

Indication of connection mode, detector address and state

Connected detectors/analyzers information displaying on each channel

Built-in two-line letter-digital display


-type of detector

-measurement range of controlled quantity


-address

- detector's connection mode

Detectors status indication (integrated)

 yellow diodes  
(indication mode depends of connection mode)

Loop status indication (integrated)

 blue diodes  
(connection indication with detectors)

Ingress Protection (IP)

Standardized housing / modular DIN structure

IP 54