



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