DEGA
www.dega.co.com

GAS AND FLAME DETECTION
DETEKCE PLYNU A PLAMENE

DEGA UPA III

GAS DETECTION CONTROL PANEL

- Up to 32 transmitters via RS485
- Up to 8 transmitters via 4-20mA
- Produced in compliance with standard SIL
- Protection level IP 54

ISO 9001:2015
Quality management Systems
Systéme de Qualité
www.sgs.com

SYSTEM CERTIFICATION
ISO 9001
SGS

The third-generation evaluation controller is designed as a separate device, with the possibility of mounting on a wall or in a switchboard. It is used to power up to 40 transmitters, 32 digitally (RS485), and up to 8 transmitters via an analog input (4-20 mA). For each transmitter individually and as a whole, it evaluates the gas leakage in four levels and information about the failure of a given transmitter or the entire system (1-4th level ALARM and ERROR). It is also possible to connect one DEGA Zc II flood transmitter and a DEGA Tc II temperature transmitter (up to two critical temperature levels, ALARM). The status of all transmitters is indicated on the controller through an LCD display. The controller can be equipped with up to 10 arbitrarily configurable relays, output for optical and acoustic signaling, USB port, and many internal and external modules, also for connection to the control of secondary systems (fan, air conditioning, etc.). The controller can also be expanded with memory (HISTORY) with recording up to 34 days back and a backup power supply (UPS).

TECHNICAL DETAILS

Power supply	230 V AC/40 VA, or 24 V DC/2 A nominal
Functional protection standard	EN61508
Dimension without bushings	280x200x85 mm (WxHxD)
Weight	1,4 kg
Internal memory capacity	34 days at a 60s-record-saving-intervals
Record saving interval	60 s (adjustable range from 10s to 255 s)
Ambient temperature	-20 to +85 °C
Relative humidity	0-95 % RV
Cover protection level	IP 54
Operating environment	BE1 - environment without danger of

■ TYPES:

DEGA UPA III 16
control panel for max. 16 transmitters

DEGA UPA III 32
control panel for max. 32 transmitters

DEGA UPA III 40
control panel for max. 40 transmitters
(32 pcs by RS485, 8 pcs by 4-20mA)

■ OUTPUTS:

- 5x isolated switch 250V/10A
- 2x output for visual and acoustic signalization (max 24V 0,40A)
- 1x emergency valve DEGA HV DNx RS485 communication protocol DEGA, or MODBUS for superior control system (PLC, PC)
- 1x USB (to allow configuration via PC)

■ FUNCTIONS:

- 34 days alarm record history
- 4 levels of gas leakage alarm, PEL, STEL
- Service mode
- Naming of positions of detectors for better orientation
- Reading of values and and statuses for the superior control system via Modbus commucation protocol
- Testing of outputs via "TEST MENU"

■ EXPANSION MODULES:

DEGA UPA III Power
Internal Power Supply 230 V AC/15VA

DEGA UPA III Relay Module
Internal Output, 7-relay, 250 V/10 A

DEGA UPA III RS485 Modbus RTU Module
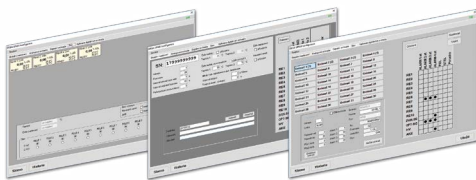Internal RS485 Modbus RTU

DEGA UPA III Internal 8xInput 4-20mA
Internal Input 4-20mA

DEGA UPA III Memory Module
Internal memory with battery

■ SOFTWARE:

DEGA Config
configuration and service software

DEGA VISIO III
visualization software

■ ACCESSORIES:

Intrinsic safety
Zener barrier

Mounting Box for
Zener
Bariers with DIN rail

UPS External
(Battery Backup
12Ah/24Ah)