



DSPA-UAS

DSPA UNIVERSAL ACTIVATION SYSTEM

DSPA UNIVERSAL ACTIVATION SYSTEM (UAS)

UNIVERSAL INTERFACE FOR FIRE ALARM AND SUPPRESSION CONTROL PANELS



COMPATIBLE WITH EXISTING
FIRE ALARM PANELS



UP TO 400
GENERATORS



LINE MONITORING
AND FAULT DETECTION



INTEGRATED
TEST MODE

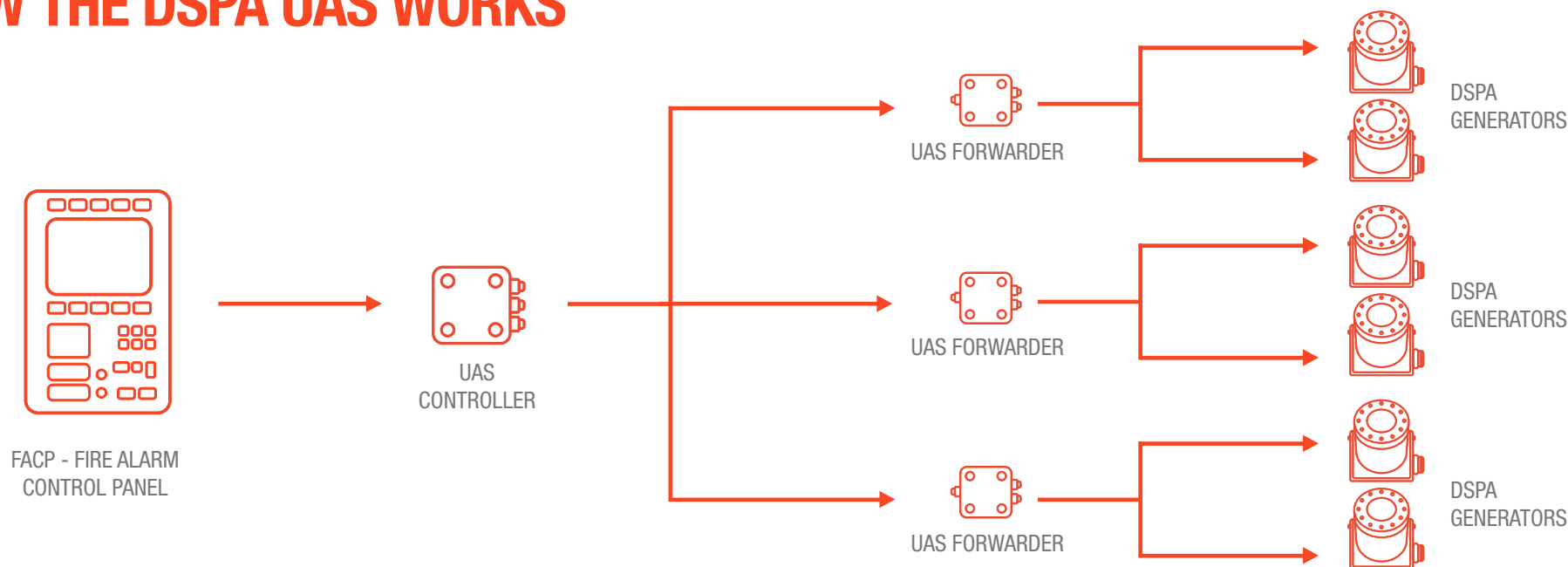


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CERTIFIED

FIRE ALARM AND EXTINGUISHING CONTROL PANELS VARY SIGNIFICANTLY ACROSS MANUFACTURERS AND REGIONS. INTEGRATING AEROSOL GENERATORS OFTEN REQUIRES CUSTOM INTERFACES AND PROJECT-SPECIFIC ENGINEERING. THE DSPA UNIVERSAL ACTIVATION SYSTEM (UAS) WAS DEVELOPED TO SIMPLIFY THIS PROCESS.



HOW THE DSPA UAS WORKS



PANEL-INDEPENDENT INTEGRATION

THE DSPA UNIVERSAL ACTIVATION SYSTEM ACTS AS AN INTERFACE BETWEEN THE FIRE ALARM OR SUPPRESSION CONTROL PANEL AND DSPA AEROSOL GENERATORS. THE UAS CONTROLLER RECEIVES ACTIVATION COMMANDS FROM THE CONTROL PANEL AND COMMUNICATES WITH THE UAS FORWARDERS. EACH UAS FORWARDER ACTIVATES AND MONITORS UP TO TWO DSPA AEROSOL GENERATORS WHILE CONTINUOUSLY SUPERVISING THE WIRING FOR FAULTS. THIS ARCHITECTURE ENABLES RELIABLE ACTIVATION, MONITORING AND FAULT REPORTING WHILE ALLOWING THE USE OF LOCALLY PREFERRED FIRE ALARM AND SUPPRESSION CONTROL PANELS.



GENERIC SPECIFICATIONS

PARAMETER	VALUE
AMBIENT TEMPERATURE RANGE	-10 TO +50 °C
INPUT VOLTAGE	21–28 V DC
CONDUCTOR CROSS SECTION (SOLID)	0.5–1.5 MM²
CONDUCTOR CROSS SECTION (FLEXIBLE)	0.5–1.5 MM²
CONDUCTOR SIZE (AWG)	20–15

ORDERING INFORMATION

PART NUMBER	DESCRIPTION
100850	UAS CONTROLLER
100851	UAS FORWARDER





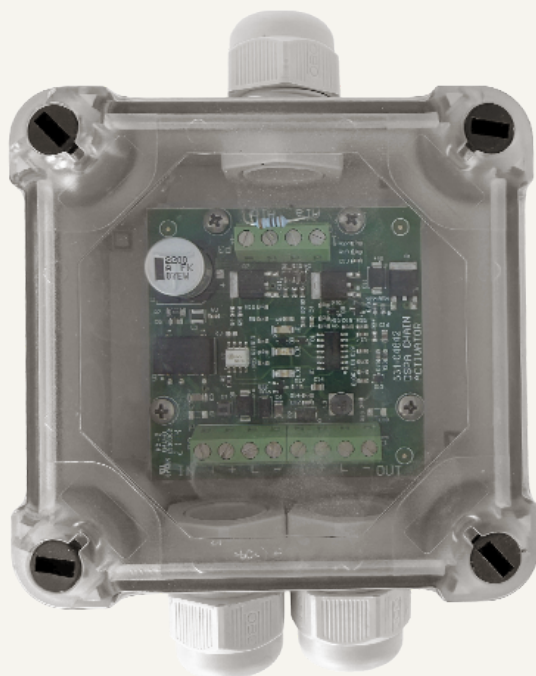
UAS CONTROLLER (100850)

- DIRECT CONNECTION TO THE FIRE ALARM SUPPRESSION PANEL
- PROCESSES ACTIVATION AND MONITORING SIGNALS
- COMMUNICATES WITH ALL CONNECTED FORWARDERS
- SUPPORTS UP TO 400 GENERATORS

TECHNICAL OVERVIEW

PARAMETER	VALUE
NOMINAL CURRENT CONSUMPTION	40 MA
MAXIMUM CURRENT CONSUMPTION (TEST MODE WITH EXTINGUISHING)	100 MA
MAXIMUM CURRENT CONSUMPTION ON RAC	10 MA
MAXIMUM NUMBER OF FORWARDERS	100
EXTERNAL DIMENSIONS	120 × 120 × 90 MM
PROTECTION CLASS	IP67





UAS FORWARDER (100851)

- ACTIVATES UP TO TWO DSPA AEROSOL GENERATORS
- MONITORS GENERATOR CIRCUITS
- DETECTS WIRE BREAK AND SHORT CIRCUIT CONDITIONS
- REPORTS STATUS BACK TO THE CONTROLLER

TECHNICAL OVERVIEW

PARAMETER	VALUE
NOMINAL CURRENT CONSUMPTION	6 MA
MAXIMUM CURRENT CONSUMPTION (TEST MODE WITH EXTINGUISHING)	10 MA
EOL RESISTOR (LAST UAS FORWARDER)	2700 Ω (T-LINE) 2700 Ω (L-LINE)
MAXIMUM GENERATORS PER FORWARDER	2
MAXIMUM WIRING LENGTH GENERATOR TO UAS FORWARDER)	3 Mt*
EXTERNAL DIMENSIONS (L x W x D)	95 x 95 x 60 MMI
PROTECTION CLASS	IP65

*MAXIMUM CABLE LENGTH BETWEEN THE DSPA AEROSOL GENERATOR AND THE UAS FORWARDER TERMINALS A1A AND/OR A1B. REFER TO THE COMMISSIONING PROTOCOL FOR ADDITIONAL INSTALLATION REQUIREMENTS.





