



ESP SAFETY Pvt. Ltd.

Technology of the Future
Protection for today



Fire Heat Detector DOTES is intended for temperature control of environment temperature in places of technological equipment installation of pump-houses gas and oil-trunk pipelines, tank farms, loading docks and alarm signaling about achievement of temperature which is increase the allowable level, as well as for pumping station automatic protection program realization.

The heat detector is available in several modifications and can operate in temperature ranges from -60°C to 235°C with relative humidity of 95% and has IP67 protection level.



DOTES

Applications

- Oil and Gas pump-stations
- Under the housing of gas turbine
- Sections accommodation power equipment on ships, vessels and offshore platforms

Features and benefits

- High accuracy
- Detectors can operate around-the-clock work
- Resistance to high temperature environment , at least than 15°C higher than the normal set temperature , and exposed to cyclic humidity
- High strength to mechanical stress (shock resistance, vibration , etc.).
- Immunity to electromagnetic interference of industrial operating facilities

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Operating Temperature Range

Model	Operation temperature, °C	Temperature release, °C
DOTES-1	85+3	65+7
DOTES-2	160+10	130+15
DOTES-3	180+10	140+15
DOTES-4	225+10	175+10

Output	"Dry contact" Relay
Voltage/ Current, communicated by relays contacts	220V/ 10A
Explosion-proof	Ex enclosure
IP level	IP 67
Mean time between failures	not less the 200 000hours
Life time	not less then 10 years

Calibration

Factory calibrated at 0%, 20%, 50% and 95% LEL with methane or propane. Calibration with NSIT calibration gas is optional.

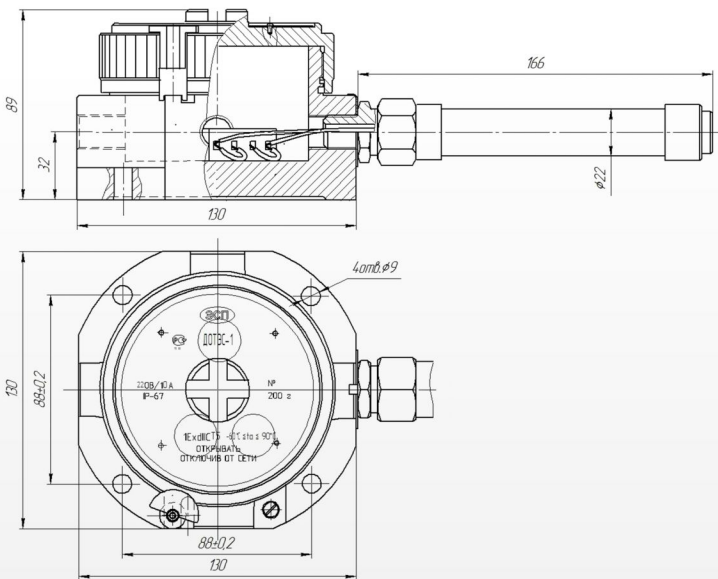
Options

Visor (for rain and snow protection)
Standard gas configuration options

- methane
- propane
- butane
- pentane
- hexane
- isobutane
- cyclopentane
- ethanol

Custom gas configuration: volatile organic compounds (VOC)

Optional calibration with gas mixtures directly traceable to NIST standard reference materials.



Mechanical characteristics:

Material	Aluminum/ Stainless steel SS316
Size Dimension	300x130x90 mm
Weight	not exceed 2,3 kg
Conduit Entry	¾" – 14 NPT (2 cable entries available)
Wiring	16 AWG (1.5mm) (for 1200m maximum)
Warranty	2 years

Certification:



Class I, Division 1,
Groups B, C & D,
IP66



Class I, Division 1,
Groups B, C & D,
T4 Ta = -40°C to +85°C
IP66



Certificate of Conformity:
CE Mark for EMC (TUV)
CE Mark for IECEx



Ex B IIC T4 Ta =
-40°C to +85°C
Zone 1 and 2 according
to IEC 60079-10



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