



Technology of the Future
Protection for today

ESP SAFETY Pvt. Ltd.

Addressable Fire Heat detector IPCES is designed for temperature measurement of gaseous and liquid chemically aggressive and non-aggressive environments, which are not destroyed the protection fittings and issuing digital signal for automatic control and alarm systems, has digital output of RS-485 installed in the IPCES heat and fire detector.



HEAT & FIRE ADDRESSABLE DETECTOR IPCES

Applications

- Tank Farms
- Loading docks
- Firefighting and explosive zones

Features and benefits

- Low thermal lag
- Additional protection from influence of working environment
- Possibility of sensor replacement without the installation of protective cover an object
- Possibility of use as a temperature gauge, a display of measurement results to the PC
- If necessary, equipped with a network repeater-splitter PRSES intended for use in potentially explosive atmospheres as an amplifier - the pulse generator, and a splitter in the design of long and branched lines of communication via RS-485

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SPECIFICATIONS

Electrical Characteristics

Measuring temperature range
From -60 to 150 • (at relative humidity till 98%)

Digital output
RS 485 (address IPCES, measuring results, thresholds codes)

Absolute error
Not exceed ± 1.00 •

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Power supply
24•, 30 m• (via BIS)

Thermal lag (readings delay)
Not more 6 sec.

Voltage/Power
24V 30mA

Calibration

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

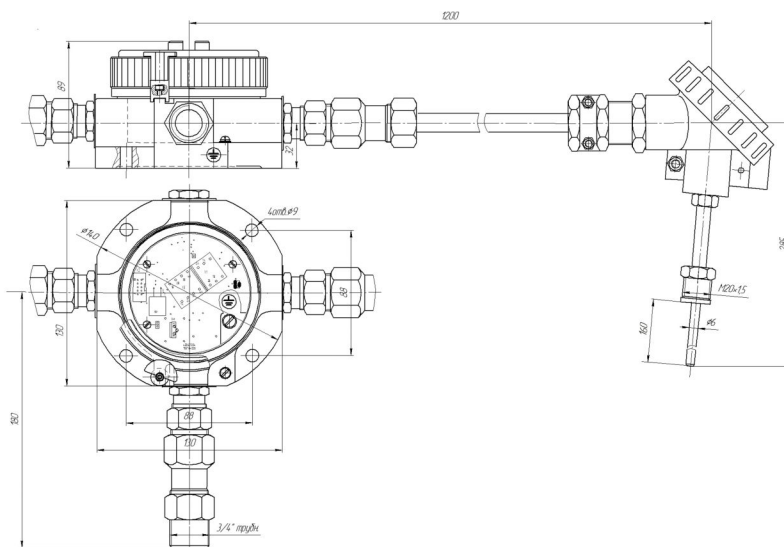
Options

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
Weight	not more than 2,3 kg
Working life:	10 years
Conduit Entry	3/4" – 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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