DURAN®
electrónica

STANDGAS HC PRO

Stand-alone detector for explosive gases using catalytic technology

Explosives

Stand-alone detector for industrial use designed for the detection of explosive gases using catalytic technology (pellistor), for a detection range of 0 to 100% L.E.L and resistant to silicone vapours.

Functions:

- Optical indicator for sensor fault & status
- Selection of gas to be detected by using a jumper
- Programmable initial status for the alarm relay
- Programmable alarm levels
- Programmable activation delay for the alarm relay
- Sensor and compensator in different encapsulates, ensuring a higher linearity and stability

- **Stand-alone functioning:** not connected to a control panel. • **Detection range** from 0 to 100% L.E.L.
- **Resistant** to silicone vapours (HDMS). • **Detector** provided with sintered filter. • **IP65** protection grade.

AVAILABLE GASES

Methane - natural gas CH_4 - Hydrogen H_2 - Methanol CH_4O - Ethane C_2H_6 - Ethanol C_2H_6O - Ethylene $_2HC=CH_2$ - Propane C_3H_8 - Propylene $H_2C=CH-CH_3$ - Acetone $CH_3(CO)CH_3$ - Ammonia NH_3 - Cyclohexane C_6H_{12} - Cyclopentane C_5H_{10} - Dioxane $C_4H_8O_2$ - Ethyl acetate $CH_3-COO-CH_2-CH_3$ – Isopropyl alcohol (IPA) $H_3C-HCOH-CH_3$ - Methyl ethyl ketone (MEK) - Butane C_4H_{10} - Hexane C_6H_{14} - Pentane C_5H_{12} - Propanol $H_3C-CH_2-CH_2-OH$ (Propyl alcohol) - Butyl acetate $CH_3COO(CH_2)_3CH_3$ - Iso-Octane C_8H_{18} - Heptane C_7H_{16} - Toluene $C_6H_5CH_3$ - Xylene $C_6H_4(CH_3)_2$ –Benzene C_6H_6 - Kerosene - Acetic acid CH_3-COOH - Decane $C_{10}H_{22}$ – Isobutyl Alcohol $(CH_3)_2CHCH_2OH$ - Nonane C_9H_{20} - Styrene C_8H_8 - Methyl isobutyl ketone C_6H1_2O.

A special version for the detection of ACETYLENE C_2H_2 is also available.

STANDGAS HC PRO allows for the automatic selection of the gas to detect of any of the available gases, through using a protocol established by a jumper.

APLICATIONS

- Battery Rooms – Pharmaceutical Laboratories – University Laboratories – Aeronautical Industry - Galleries - Distilleries – Livestock farms – Petrol stations – Boiler Rooms – Industrial Kitchens - Industry in General.

ALL DETECTORS MANUFACTURED BY DURAN ELECTRONICA ARE CALIBRATED AT FACTORY USING TARGET GAS

TECHNICAL CHARACTERISTICS

Technology	Catalytic sensor and microprocessor
Voltage supply	From 10V to 24V DC (2-wire +/-)
Maximum consumption at 12 V DC	110 mA at 12V DC
Gas measurement range	0-100% L.E.L (5% vol. Methane) - linear full range -
Resolution	±1% L.E.L. of measurement range
Zero deviation	± 7mV/year
Span deviation	± 9% L.E.L./ year
Stabilization time	< 15 minutes –all specifications-
Response time T50/T90	3s & 8s respectively
Useful life	Approx. 4 years in normal working conditions
Maintenance period	Annual -recommended-
Humidity range	0 to 90% RH with no condensation
Environmental conditions	-10ºC to +50ºC
Atmospheric pressure limits	80 a 110 kPa (0.8 a 1.1 bar)
Sensor optical indicator	External
Status indicator	External
Switched alarm relay output dry contact 3A 250V AC	1 programmable alarm level with two options (20% L.E.L and 50% L.E.L), instantaneous/delayed disconnection with programmable disconnection delay. Relay status programming between at rest/activated.
Coverage area	16 m² approximately
Protection grade	IP65
Box material	Makrolon & ABS
Input and cable diameter	Cable glands / 6-10mm² -to maintain IP65 protection-
Dimensions in mm and weight in gr	120 X 160 X 60 / 288

WARRANTY

STANDGAS HC PRO detectors are guaranteed against any manufacturing defect for 1 year from the date of purchase. Warranty conditions are found in the installation manual of the detector.

ORDERING INFORMATION

When placing the order please be sure about the correct product code according to the description and, check that it complies with your requirements.

Remember that gas selection is done by protocol assigned using a jumper.

STANDGAS HC PRO

CODE	DESCRIPTION
SPLN-HCr	Stand-alone detector for explosive gases provided with relay output
SPLNACTr	Stand-alone detector for acetylene provided with relay output

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