

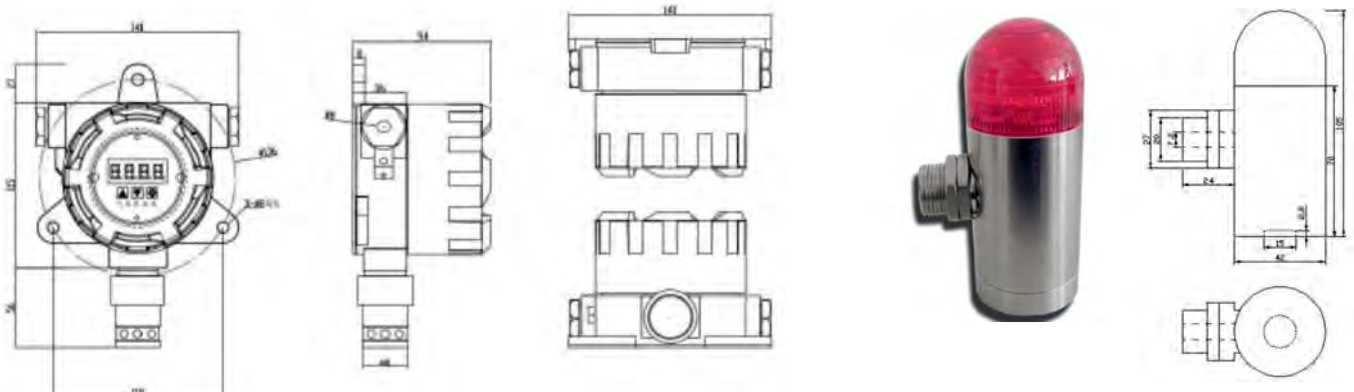


DPF-Q500D GAS DETECTOR

DPF-Q500D series fixed gas detector is also called gas sensor. It transforms the gas density in the operating site into standard electric current signal (4-20mA). With LED display, detector's sensor can be changed and reused as soon as it is connected to electricity.

DPF-Q500D detector has excellent performance, stable operation, easy maintenance. detector can detect various gas, it meets various requirements in the operation site; it has been widely used in petrol, chemistry, metallurgy, artifice, gas transportation, biological medicine and water processing etc.

Detecting Gas	combustible gas, toxic gas, oxygen
Measuring Range	see the chart
Working Voltage	24VDC±15%
Signal output	4~20mA linear current output; 3 WIRES
Deviation	≤± 3% F.S
Respond Time	T90 < 30 s
Recovering time	≤ 30 s
Display model	LED display
Working Temperature	toxic gas: - 20 °C ~ + 50 °C Combustible gas: - 40 °C ~ + 70 °C
Working Humidity	10-95% R.H.(no condensation)
Explosion-proof level	Exd IICT6(used for explosion proofing detector) ; ExialICT4(used for intrinsic safety type detector)
Protection Class	IP66
Transition cable	three core shield cable RVVP 3×1.5mm ² ; 4×1.5mm ²
Transmission distance	≤1000m
Weight	about 1.5kg



Product Information Chart

Product Model	Detected Gas	Measuring Range	Resolution	Respond Time (T90)	Low Alarm	High Alarm
DPFQ500D-EX	combustible gas	0-100%LEL	1%LEL	≤30s	20%LEL	50%LEL
DPFQ 500D-O2	O2	0– 30%vol	0.1%vol	≤15s	18.5%vol	23%vol
DPFQ 500D-CO	CO	0– 1000ppm	1 ppm	≤15s	50ppm	150ppm
DPFQ 500D-H2S	H2S	0– 100ppm	1 ppm	≤15s	10ppm	15ppm
DPFQ 500D-HCN	HCN	0– 20ppm	0.1ppm	≤30s	5ppm	10ppm
DPFQ 500D-CL2	CL2	0– 20ppm	0.1 ppm	≤30s	2ppm	5ppm
DPFQ 500D-O3	O3	0– 5ppm 0-100ppm	0.1 ppm 1ppm	≤25s	0.1ppm	0.5ppm
DPFQ 500D-NH3	NH3	0– 100ppm	1 ppm	≤30s	25ppm	50ppm
DPFQ 500D-H2	H2	0– 1000ppm	1 ppm	≤30s	50ppm	200ppm
DPFQ 500D-NO2	NO2	0– 20ppm	0.1 ppm	≤25s	2ppm	5ppm
DPFQ 500D-PH3	PH3	0-20ppm	0.1 ppm	≤15s	1ppm	3ppm
DPFQ 500D-C3H3N	C3H3N	0-100ppm	1ppm	≤30s	5ppm	15ppm
DPFQ 500D-NO	NO	0-250ppm	1ppm	≤25s	35ppm	50ppm
DPFQ 500D-HCL	HCL	0-20ppm	1ppm	≤25s	3ppm	5ppm
DPFQ 500D-SO2	SO2	0– 20ppm	0.1ppm	≤15s	2ppm	5ppm
DPFQ 500D-CO2	CO2	0-5000ppm 0-5.00%vol	1ppm 0.01%vol	≤30 s	1000ppm 1.00%vol	2000ppm 2.00%vol
As for unlisted detected gas and measuring range, please contact with our company						

Installation and wiring

Detector should be installed 1m away from valves, piping interface, gas outlet port or leakage place and has no effect on the operation of other equipment. Try to avoid high temperature and high humidity environment.

Fixing height: when density of detected gas is greater than air, fixing height is 2m~3.5m; when density of detected gas is smaller than air, fixing height is 0.3~0.6m to the floor.

Sensor must be down fixed, locking nut should be fully tighten, detector front and back covers shall be completely covered. All these safety measures meet explosion-proof requirements.

It is recommend to install one detector in the space of 30m²~50m².

Fix detector on the wall, uninstal front cover, bring in transmission cables from inlet port, send rubber seal into internal shell. Connect guide lines to internal corresponding terminals according to marked color (see chart), make sure the wiring is correct, draw out excess cable, tighten locking nut, compact rubber seal, bind cable (explosion-proof design). Use explosion-proof hose may also be connected directly to the detector. Controller and detector is connected with shielded cable whose diameter is not less than 1.5 mm² and the transmission distance is less than 1000m. After checking the connection, tighten the front cover. According to user's site conditions, user can do the connection first, then fix detector on the wall.

