

Replacement Smart Sensor

Assembly for Q5/B5, Q6/B6 Sensors



Automation Components
a DwyerOmega brand

Description

The smart sensor assembly is a factory calibrated replacement module for the Q5/B5 or Q6/B6 series of toxic, combustible or IR gas detection to make maintenance quick and easy. The boards are easily replaced in the field by removing two screws on the previous module and the replacement board installed. All units should be checked for proper functionality and calibration once the replacement sensor module is reinstalled and has had a chance to warm up.

See Q5/B5 or Q6/B6 data sheets for technical specs.

Warranty

The Q5/B5 Series Gas Transmitters are covered by ACI's Two (2) Year Limited Warranty against defects in material and workmanship from the date of shipment with the exception of the Sensor Modules (Electrochemical/Toxic: Six Months and Catalytic/Combustible: One Year). The warranty can be found in the front of ACI's Sensors & Transmitters catalog, as well as on ACI's website, workaci.com.



Sensor Selection and Specification

Gas Type	Gas Span Code	Measurement Range	Item #	Smart Sensor Part #	Combustible	Toxic	100 % LEL 1 in % By Vol.
Acetone	CH3CO-100L	0 % to 100 % LEL	143075	85930-017-025	•		2.6 %
Ammonia	NH3-100P	0 ppm to 100 ppm	133955	85930-018-009		•	N/A
Ammonia	NH3-1000P	0 ppm to 1000 ppm	143081	85930-018-209		•	N/A
Arsine	ASH3-1P	0 ppm to 1 ppm	143085	85930-017-096		•	N/A
Benzene	C6H6-100L	0 % to 100 % LEL	143074	85930-017-024	•		1.3 %
Iso-Butane	C4H10-100L	0 % to 100 % LEL	143071	85930-017-021	•		1.8 %
Butanol, n-Butane	BUTAN-100L	0 % to 100 % LEL	143076	85930-017-026	•		1.9 %
Carbon Dioxide	CO2-5000P	0 ppm to 5000 ppm	143095	85930-019-015	Infrared	Infrared	N/A
Carbon Dioxide	CO2-5V	0 % to 5 % Volume	140584	85930-019-215	Infrared	Infrared	N/A
Carbon Dioxide	CO2-20V	0 % to 20 % Volume	143096	85930-019-315	Infrared	Infrared	N/A
Carbon Dioxide	CO2-100V	0 % to 100 % Volume	143097	85930-019-415	Infrared	Infrared	N/A
Carbon Monoxide	CO-250P	0 ppm to 250 ppm	134488	85930-018-001		•	N/A
Carbon Monoxide	CO-1000P	0 ppm to 1000 ppm	136888	85930-018-201		•	N/A
Chlorine	CL2-5P	0 ppm to 5 ppm	143083	85930-018-013		•	N/A
Chlorine Dioxide	CLO2-2P	0 ppm to 2 ppm	143084	85930-018-014		•	N/A
Diborane	B2H6-2P	0 ppm to 2 ppm	143090	85930-018-100		•	N/A
Ethylene	C2H4-100L	0 % to 100 % LEL	143070	85930-017-020	•		2.7 %
Ethylene Oxide	ETO-20P	0 ppm to 20 ppm	143093	85930-018-012		•	N/A



Germane	GEH4-2P	0 ppm to 2 ppm	143089	85930-018-099		•	N/A
Hydrogen	H2-1000P	0 ppm to 1000 ppm	139147	85930-018-006		•	N/A
Hydrogen	H2-2000P	0 ppm to 2000 ppm	143079	85930-018-206		•	N/A
Hydrogen	H2-100L	0 % to 100 % LEL	134525	85930-017-018	•		4.0 %
Hydrogen Bromide	HBR-30P	0 ppm to 30 ppm	143094	85930-018-101		•	N/A
Hydrogen Chloride	HCL-30P	0 ppm to 30 ppm	143092	85930-018-008		•	N/A
Hydrogen Cyanide	HCN-50P	0 ppm to 50 ppm	143080	85930-018-007		•	N/A
Hydrogen Sulphide	H2S-25P	0 ppm to 25 ppm	143077	85930-018-002		•	N/A
Hydrogen Sulphide	H2S-100P	0 ppm to 100 ppm	143078	85930-018-202		•	N/A
Methane	CH4-100L	0 % to 100 % LEL	137711	85930-017-016	•		5.0 %
Methanol	CH3OH-100L	0 % to 100 % LEL	143073	85930-017-023	•		6.7 %
Nitric Oxide	NO-100P	0 ppm to 100 ppm	1430941	85930-018-004		•	N/A
Nitrogen Dioxide	NO2-10P	0 ppm to 10 ppm	135230	85930-018-005		•	N/A
Oxygen ²	O2-25V	0 % to 25 % by Vol	136971	85930-916-000		•	N/A
Ozone	O3-1P	0 ppm to 1 ppm	143082	85930-018-011		•	N/A
Iso-Pentane	C5H12-100L	0 % to 100 % LEL	143072	85930-017-022	•		1.4 %
Phosphine	PH3-1P	0 ppm to 1 ppm	143086	85930-018-297		•	N/A
Phosphine	PH3-5P	0 ppm to 5 ppm	143087	85930-018-091		•	N/A
Propane	C3H8-100L	0 % to 100 % LEL	143068	85930-017-017	•		2.1 %
Silane	SiH4-50P	0 ppm to 50 ppm	143088	85930-019-098		•	N/A
Sulphur Dioxide	SO2-6P	0 ppm to 6 ppm	142952	85930-018-003		•	N/A
Combustibles ¹	GENL-100L	0 % to 100 % LEL		85930-017-019	•		Specify Gas

Acetaldehyde, Benzene, Carbon Disulfide, Dioxane, Ethane, Ethanol, Ethylbenze, Gasoline, Heptane, Hexane, Ipa, Jet Fuel, Kerosene, Naptha, Styrene, Toluene, Voc's, Xylenes, Acetylene, Diesel, Pentane

Note¹: Lower Explosive Limit (LEL) | **Note²:** Oxygen sensors monitor oxygen depletion caused by numerous gases including: Nitrous Oxide, Helium, Sulfur Hexafluoride, Argon, Xenon, Neon.



Version 3.0

