



# REPLACEMENT SMART SENSOR

## Assembly for Q5/B5, Q6/B6 Sensors



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.

**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](http://workaci.com).**

### SENSOR SELECTION AND SPECIFICATION

| Gas Type                  | Gas Span Code | Measurement Range | Item #  | Smart Sensor Part # | Combustible | Toxic    | 100% LEL <sup>1</sup> in % By Vol. |
|---------------------------|---------------|-------------------|---------|---------------------|-------------|----------|------------------------------------|
| Acetone                   | CH3CO-100L    | 0-100% LEL        | 143075  | 85930-017-025       | •           |          | 2.6%                               |
| Ammonia                   | NH3-100P      | 0-100 PPM         | 133955  | 85930-018-009       |             | •        | N/A                                |
| Ammonia                   | NH3-1000P     | 0-1000 PPM        | 143081  | 85930-018-209       |             | •        | N/A                                |
| Arsine                    | ASH3-1P       | 0-1 PPM           | 143085  | 85930-017-096       |             | •        | N/A                                |
| Benzene                   | C6H6-100L     | 0-100% LEL        | 143074  | 85930-017-024       | •           |          | 1.3%                               |
| Iso-Butane                | C4H10-100L    | 0-100% LEL        | 143071  | 85930-017-021       | •           |          | 1.8%                               |
| Butanol, n-Butane         | BUTAN-100L    | 0-100% LEL        | 143076  | 85930-017-026       | •           |          | 1.9%                               |
| Carbon Dioxide            | CO2-5000P     | 0-5000P           | 143095  | 85930-019-015       | Infrared    | Infrared | N/A                                |
| Carbon Dioxide            | CO2-5V        | 0-5% Volume       | 140584  | 85930-019-215       | Infrared    | Infrared | N/A                                |
| Carbon Dioxide            | CO2-20V       | 0-20% Volume      | 143096  | 85930-019-315       | Infrared    | Infrared | N/A                                |
| Carbon Dioxide            | CO2-100V      | 0-100% Volume     | 143097  | 85930-019-415       | Infrared    | Infrared | N/A                                |
| Carbon Monoxide           | CO-250P       | 0-250 PPM         | 134488  | 85930-018-001       |             | •        | N/A                                |
| Carbon Monoxide           | CO-1000P      | 0-1000 PPM        | 136888  | 85930-018-201       |             | •        | N/A                                |
| Chlorine                  | CL2-5P        | 0-5 PPM           | 143083  | 85930-018-013       |             | •        | N/A                                |
| Chlorine Dioxide          | CLO2-2P       | 0-2 PPM           | 143084  | 85930-018-014       |             | •        | N/A                                |
| Diborane                  | B2H6-2P       | 0-2 PPM           | 143090  | 85930-018-100       |             | •        | N/A                                |
| Ethylene                  | C2H4-100L     | 0-100% LEL        | 143070  | 85930-017-020       | •           |          | 2.7%                               |
| Ethylene Oxide            | ETO-20P       | 0-20 PPM          | 143093  | 85930-018-012       |             | •        | N/A                                |
| Germane                   | GEH4-2P       | 0-2 PPM           | 143089  | 85930-018-099       |             | •        | N/A                                |
| Hydrogen                  | H2-1000P      | 0-1000 PPM        | 139147  | 85930-018-006       |             | •        | N/A                                |
| Hydrogen                  | H2-2000P      | 0-2000 PPM        | 143079  | 85930-018-206       |             | •        | N/A                                |
| Hydrogen                  | H2-100L       | 0-100% LEL        | 134525  | 85930-017-018       | •           |          | 4.0%                               |
| Hydrogen Bromide          | HBR-30P       | 0-30 PPM          | 143094  | 85930-018-101       |             | •        | N/A                                |
| Hydrogen Chloride         | HCL-30P       | 0-30 PPM          | 143092  | 85930-018-008       |             | •        | N/A                                |
| Hydrogen Cyanide          | HCN-50P       | 0-50 PPM          | 143080  | 85930-018-007       |             | •        | N/A                                |
| Hydrogen Sulphide         | H2S-25P       | 0-25 PPM          | 143077  | 85930-018-002       |             | •        | N/A                                |
| Hydrogen Sulphide         | H2S-100P      | 0-100 PPM         | 143078  | 85930-018-202       |             | •        | N/A                                |
| Methane                   | CH4-100L      | 0-100% LEL        | 137711  | 85930-017-016       | •           |          | 5.0%                               |
| Methanol                  | CH3OH-100L    | 0-100% LEL        | 143073  | 85930-017-023       | •           |          | 6.7%                               |
| Nitric Oxide              | NO-100P       | 0-100 PPM         | 1430941 | 85930-018-004       |             | •        | N/A                                |
| Nitrogen Dioxide          | NO2-10P       | 0-10 PPM          | 135230  | 85930-018-005       |             | •        | N/A                                |
| Oxygen <sup>2</sup>       | O2-25V        | 0-25% by Vol      | 136971  | 85930-016-000       |             | •        | N/A                                |
| Ozone                     | O3-1P         | 0-1 PPM           | 143082  | 85930-018-011       |             | •        | N/A                                |
| Iso-Pentane               | C5H12-100L    | 0-100% LEL        | 143072  | 85930-017-022       | •           |          | 1.4%                               |
| Phosphine                 | PH3-1P        | 0-1 PPM           | 143086  | 85930-018-297       |             | •        | N/A                                |
| Phosphine                 | PH3-5P        | 0-5 PPM           | 143087  | 85930-018-091       |             | •        | N/A                                |
| Propane                   | C3H8-100L     | 0-100% LEL        | 143068  | 85930-017-017       | •           |          | 2.1%                               |
| Silane                    | SiH4-50P      | 0-50 PPM          | 143088  | 85930-019-098       |             | •        | N/A                                |
| Sulphur Dioxide           | SO2-6P        | 0-6 PPM           | 142952  | 85930-018-003       |             | •        | N/A                                |
| Combustibles <sup>1</sup> | GENL-100L     | 0-100% LEL        |         | 85930-017-019       | •           |          | <b>Specify Gas</b>                 |

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

**Note<sup>1</sup>:** Lower Explosive Limit (LEL) | **Note<sup>2</sup>:** Oxygen sensors monitor oxygen depletion caused by numerous gases including: Nitrous Oxide, Helium, Sulfer Hexafluoride, Argon, Xenon, Neon.



RoHS COMPLIANT