

# A+ and B+ Smart Sensors

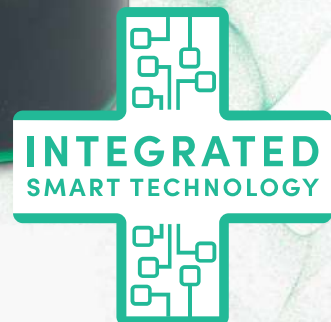
Standard in size, groundbreaking in ability.

Based upon the popular A-series and B-series platforms, the A+ and B+ feature **Integrated Smart Technology**, delivering a wide range of out of the box benefits.

Pre-populated with more than 30 sensor specific parameters and over 8KB in vacant memory, the A+ and B+ set a new standard in plug and play sensors.

## Key features

- Integrated Smart Technology (IST)
- Industry standard size formats
- Built-in memory pre-loaded with key sensor data
- Vacant memory for OEM, distributor or end user usage
- Supplied with zero, span and calibration data
- Onboard temperature monitoring
- Digital signature
- Available in more than 30 target gases



**Alphasense**  
AMETEK®

# Plug and play, your way

With over 15,000 memory slots, A+ and B+ sensors present instrument manufacturers with numerous possibilities to streamline production, improve performance and enhance end user experience. **Key benefits the A+ and B+ with Integrated Smart Technology bring include:**

**A+** | **B+**  
SERIES | SERIES



## Pre-calibrated sensors

Pre-calibrated sensors present cost savings and reduced production lead times. Plug & play sensors in the field enable users to load the required cell and go straight to work rather than spending valuable time and resource on calibration.



## Traceability/Route to Market

IST gives instrument OEM's the ability to track sensors route through supply chain, adding a service lock or coding sensors to instruments to prevent non-approved maintenance or the installation of uncertified sensors.



## Maintenance

With preloaded production and maintenance data, the host device has an awareness of its own warranty and service status, rejecting sensors is deems incompatible and driving predictive rather than reactive maintenance, minimising instrument downtime and unnecessary sensor replacements.



## Performance

With sensor performance data captured within the sensor memory, the host device can flag when operating conditions are outside of the sensors range or where performance has deviated from spec, enhancing safe operation of devices.



## Compliance

In saving bump and/or calibration dates on individual sensors, only those requiring calibration are tested. Over time an instrument can build up a picture of sensor performance, driving predictive rather than periodic bump and calibration.



## Interchangeability

The host instrument can identify the target gas, calibration and maintenance status of the installed sensor without the need for user intervention. The instrument can also simultaneously update alarm set points and associated data.

## Developed in the lab, proven in the field

A+ and B+ sensors are built upon the field-proven and highly regarded A and B-Series. All A+ and B+ sensors are backwards compatible, sharing the same size, performance characteristics and pin-out as the A and B series.

**This two-tiered sensor offering gives instrument manufacturers the ability to standardise electronic hardware and differentiate instrument features based upon sensor selection.**



To find out more, visit [alphasense.com](https://www.alphasense.com)  
or email [sensors.alphasense@ametec.com](mailto:sensors.alphasense@ametec.com)

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