

# CTX 300

## FIXED GAS DETECTOR

### 1 What is the CTX 300 CO<sub>2</sub> S4IR?

The CTX 300 CO<sub>2</sub> S4IR is the latest version of the CTX 300 transmitter for CO<sub>2</sub> detection. It's a major development in the CTX 300 line, because it uses an S4IR infrared sensor.

### 2 What ranges are available?

The available measurement ranges for the CO<sub>2</sub> S4IR are 0-5000ppm, 0-5.00% vol and 0-100% vol for the versions without displays and 0.50% vol, 0-5.00% vol and 0-100% vol for the versions with displays.

The 0-10000ppm and 10% volume CO<sub>2</sub> ranges available on the previous models will no longer be available after July 2015.

### 3 What are the benefits of the CTX 300 CO<sub>2</sub> S4IR?

- First, it's economical – the CTX 300 CO<sub>2</sub> S4IR sensors have an open-path signal that is proportionate to the CO<sub>2</sub> concentration, so unlike previous models, you don't need to install an electronic card.
- It's user-friendly – with the (optional) display, you can read the measurements directly on the unit. This feature also makes maintenance easier.
- The infrared detection sensors are now pre-calibrated and interchangeable similar to the electrochemical sensors!
- The CTX 300 S4IR is compatible with all of the available accessories for the CTX 300 (calibration caps, splash guards, bypass adapters, filters, etc.).

### 4 What kind of cable do I need to connect the CTX 300 CO<sub>2</sub> to a central controller?

Whether the CTX 300 CO<sub>2</sub> has a display or not, the detector can be connected using a LiYCY-type 3 wire cable with shielding.



### 5 My detector, which was manufactured before July 2015, is defective. Can you replace it with a new model?

The CTX 300 S4IR is a 4-20 mA analog detector and is fully compatible with Oldham controllers. However, the open-path function on the controller should be de-activated because the CTX 300 S4IR output signal is already open path (applicable for the MX 15, MX 32 and MX 62, check the manual for your controller).

### 6 What reference numbers should I use?

The table below lists the reference numbers by measurement range:

	0-5000ppm	0-5.00% vol.	0-100% vol.
Without display	WC30CO2A	WC30CO2B	WC30CO2C
With display	WC3ACO2A (0-0.50% vol.)	WC3ACO2B	WC3ACO2C

**7 What is the operating temperature range for the CTX 300 CO<sub>2</sub>?**

For detectors provided after July 1 2015, the operating temperature range is from -40°C to +50°C for non-display versions and -20°C to +50°C for versions with displays.

**8 What accessories are available for the new CTX 300 CO<sub>2</sub>?**

The accessories, including calibration caps and splash guards can now be used with all CTX 300 detectors (except for semi-conductor versions).

**9 How do I find out what model my CTX 300 CO<sub>2</sub> is?**

Without opening the box, it's easy to find out whether you have an old CTX 300 S4IR model (before July 2015). The gas intakes into the sensors are completely different on the two models (as shown in the image below).

CTX 300 CO<sub>2</sub> detector (before July 2015)



P/N : 6514880  
 P/N : 6514881  
 P/N : 6514882

CTX 300 CO<sub>2</sub> S4IR detector (after July 2015)



P/N : 6314124

Additionally, the box reference number (P/N) printed on the ID label will be different depending on the model.



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