GPR-Analyzers

Addendum to the User Manual

For GPR-1100, 1200, 1500 (GB), 1800 (A)IS, 2500 (GB), 2800 (A)IS, 2000, 3500 MOVR, 7100, 7500 (A)IS

1 Additional Features

The features in this addendum have been added with **firmware versions 1.09** and **1.10**; they are applicable to the following analyzers.

- GPR range of portable oxygen analyzers (GPR-1000, GPR-1100, GPR-1200, GPR-2000, GPR-3500 MOVR)
- GPR-x500 (GPR-1500, GPR-1500 GB, GPR-2500, GPR-2500 GB)
- GPR-x800 (A)IS (GPR-1800 IS, GPR-1800 AIS, GPR-2800 IS, GPR-2800 AIS)
- H2S analyzers (GPR-7100, GPR-7500 IS, GPR-7500 AIS)

Before using your analyzer, carefully read both this document and the user manual (which provides instructions for firmware version 1.08).

1.1 Firmware Version 1.09

- The **Range Scale** menu is now user-configurable within your sensor's range, with typing enabled so that users can type in required values instead of scaling by factor.
- **Restart Analyzer** has been added to the System menu for online analyzers (not applicable to portable)
- During **Span/Zero** cal, High or Low will flash on the display to let you know if output is too high or low to pass calibration

1.1.1 Change your Range Scale

When editing ranges, please note the following:

- A 25 % range on a ppm analyzer cannot be edited - the 0...25 % is used only for air calibration.
- Your analyzer's lowest range cannot be exceeded.
- Your analyzer's highest range cannot be exceeded.
- A range cannot be greater than half of the next ascending range
- A range cannot be less than twice the next descending range.

In the **System** menu:

1. Use ↑ and ↓ to move the cursor to **Edit Ranges** and press ↵.
   A list of the ranges appears.

2. Select the range that you want to edit by using ↑ and ↓, then press ↵.

3. To edit the range, use ↑ and ↓ to increase or decrease the digit, and use ↵ to move to the next digit of the number. Once complete, press ↵ to confirm new range.

NOTE: Pressing ☰ before confirming your new range scale will cancel the action. Your new range scale will not be saved.

1.1.2 Restart your Online Analyzer (online models only)

In the **System** menu, use ↑ and ↓ to move the cursor to **Restart Analyzer** and press ↵.

The message "Restarting..." will appear on your display before the analyzer restarts.

1.1.3 Span or Zero Calibrate your Analyzer

NOTE: Zero calibration should always be carried out before a span calibration.

To Span or Zero calibrate your analyzer, please follow the procedure in the user manual. During calibration, **High** or **Low** will flash on the display if output is too high or too low.

1.2 Firmware Version 1.10

1.2.1 Analog Range Lock

This function allows you to assign the analog output to a fixed range.

For portable units, the range is 0...1 V and for online units, it is 4...20 mA.

In the **System** menu, use ↑ and ↓ to move the cursor to **0-1V Range** (portable) or **4-20mA Range** (online) then press ↵.

The analog output can be configured independently of the oxygen concentration displayed:

- If the selected range is **Displayed Range**, the analog output will be based on the range shown on the Home screen for fixed or auto ranging.
- If the selected analog range is specific, the analog output will be based on that range, regardless of the range of the Home screen (for auto ranging only).
- If the ranging mode is fixed (not auto), the analog output will follow the range shown on the Home screen regardless of the selected analog range.

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