

Crowcon Technical Note

Document Reference: Gas-Pro014

Document applies to: Gas-Pro units with firmware version 1V25 or above

Release Date: 24th August 2020

Subject: Gas-Pro Functionality Update
(Flammable Gas Correction Factor)



The new Gas-Pro Main PCB firmware (version 1V25) will include the following additional functionality...

Flammable Gas Correction Factor

This feature allows the user to select the type of flammable gas to be detected (*for flammable “Pellistor” sensors only*).

A specific correction factor is applied for the selected flammable gas, with respect to the base calibration gas, methane. This avoids the need for re-calibration of the flammable sensor.

The correction factor selection can only be used with pellistors initially calibrated for methane, and the correction factors pre-configured by Crowcon.

The available gas options are: **Hydrogen**, **Ethane**, **Acetylene** and **Propane**.

Gas-Pro's built-in correction factors (detailed below) have been arrived at through a process of response testing and have been averaged over several test samples.

It is, therefore, possible that there might be a small error in the reading for a Target Gas other than Methane, on some sensors, but this should be negligible when considering the commonly used alarm levels of 20%LEL & 40%LEL and that 100% LEL is the actual point of a flammable risk.

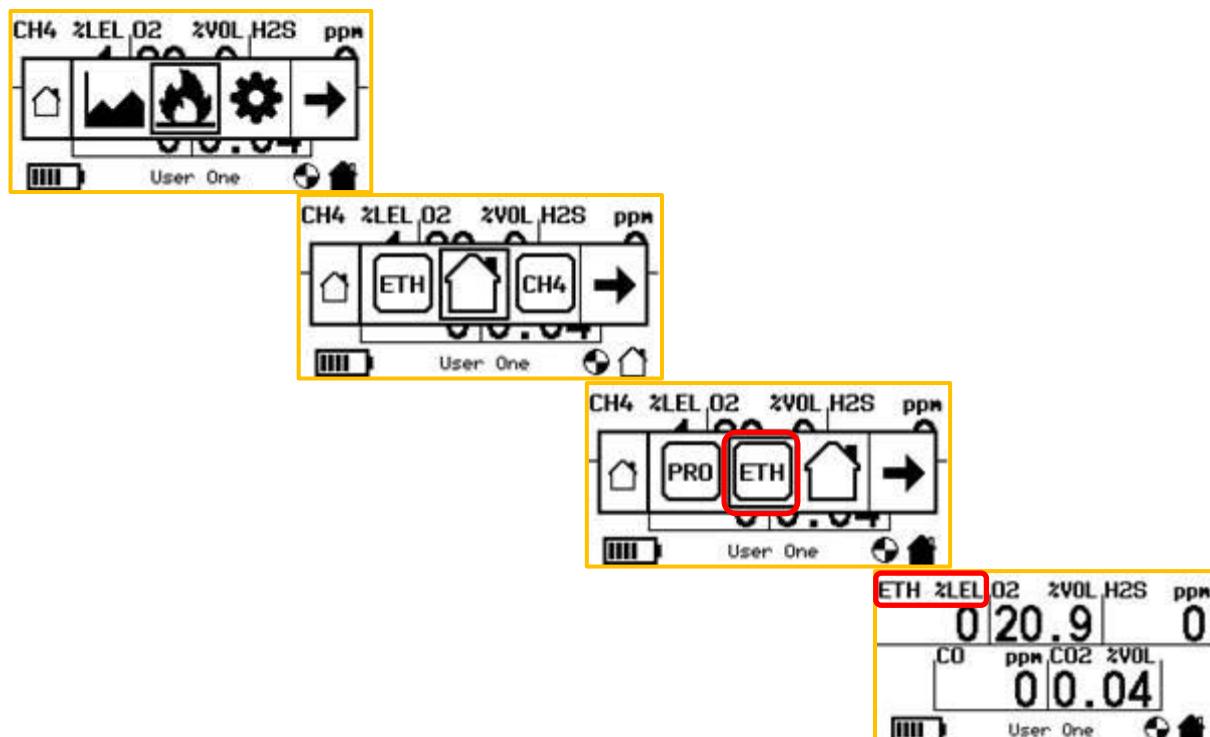
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Flammable Gas Correction Factor (...continued)

The target gas can be selected from a built-in list in the Gas-Pro firmware, via the instrument's menu (*refer to the Gas-Pro manual for details of accessing the menu*) or via the Portables-Pro PC software.

The selected gas will determine the name and correction factor applied to the pellistor sensor, as well as the gas name shown on the home screen.



The built-in correction factors are as follows:

Gas	Display Name	Correction Factor
Methane	CH4	1.00
Hydrogen	H2	1.22
Propane	PRO	0.54
Ethane	ETH	0.67
Acetylene	ACE	0.91

PLEASE NOTE:
Correction Factors cannot be used with IR (InfraRed) flammable sensors.

For more information please contact +44 (0)1235 557711, technicalsupport@crowcon.com