

Crowcon Technical Note

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Document applies to: WEL Changes – Replacing Sensor Modules

Reference: Technical Note GEN079 WEL Changes August 2018

The standard time-weighted alarm thresholds configured into ATEX certified instruments were updated in August 2018 to comply with the EU Directive 2017/164. The new (and original) alarm settings are summarised in the table below.

The new alarm thresholds are also configured during production into **spare** sensor modules; replacing a sensor module into an existing instrument may therefore result in changed instrument alarms.

- 'Mini' iModules (fitted to **Tetra 3** and **Gasman**): the instrument will default to the alarm thresholds configured in the 'host' memory when new sensor modules are fitted. The alarm thresholds therefore will not change unless the user chooses to update them using Portables PC software.
- iModules (fitted to **Tetra**): have not been updated with the new alarm levels. The user must update alarm thresholds using Portables PC if required.
- **Triple Plus+** and **Detective +** TWA alarms will automatically update when spare sensor modules are fitted. The user will need to revert the alarm thresholds to the previously configured levels using Portables PC software if required.

Gas-Pro and **T4** do not utilise sensor modules and therefore the user must choose whether to update alarm levels using Portables Pro during a service.

It is strongly recommended that instrument alarm thresholds are checked after a sensor module has been replaced.

Gas Type	TWA Alarms		Instantaneous Alarms	
	LTEL (Alarm 1)	STEL (Alarm 2)	Alarm 1	Alarm 2
Carbon Monoxide (CO)	20ppm (30ppm)	100ppm (200ppm)	30ppm	100ppm
Hydrogen Cyanide (HCN)	0.9ppm (5ppm)	4.5ppm (10ppm)	2ppm	25ppm
Nitrogen Monoxide (NO)	2ppm (25ppm)	35ppm* (35ppm)	25ppm	35ppm
Nitrogen Dioxide (NO ₂)	0.5ppm (1ppm)	1ppm (5ppm)	1ppm	5ppm
Sulphur Dioxide (SO ₂)	0.5ppm (0.5ppm)	1ppm (1ppm)	1ppm	5ppm
Oxygen (O ₂)	n/a	n/a	19.5% (Falling; was 19%)	23.5% (Rising)

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