Crowcon Technical Note

Document Reference: **GEN072 – Bump Testing Equipment for Portables – Issue 2**

Date: **11/06/2018**

Document applies to: **Crowcon Portables**

This document provides an overview of the **bump test** accessories available for each portable. Default / recommended bump test gas levels are given for instruments with O2, CO, LEL, H2S and CO2 sensors. For instruments with other sensors please check with customersupport@crowcon.com.

Abbreviations, ROW: Rest of World.

	Clip SGD Single Gas Detector
Clip SGD docking station	Can be configured with Clip SGD Docking Station software which is a free download from our website. (https://www.crowcon.com/service-and-support/software.html) Default target gas concentrations (can be changed using software): H_2S: 25 ppm, CO: 100 ppm, O_2: 18% Compatible with 60 litre cylinders. (can also be used for calibration)
Manual Solution	Spray Gas (flow cap is provided with each SGD Clip, not available separately)

G1-CO-100-N-12	100 ppm CO
G1-H2S-25-N-12	25 ppm H2S
G1-O2-18-N-12	18% O2

	Gasman
Manual Solution	**C01892 Gas test Kit.** Contains regulator, tubing, flowplate and Crowmag (Same as T3 Gas test kit, except for flowplate) NB: Bump test gas levels are preset in the instrument's firmware – these can be changed using PortablesPC. The default test gas levels are: O2: 18% volume CO: (500ppm sensor) 100ppm ROW, 250ppm USA H2S: (100ppm sensor) 15ppm CH4: 50% LEL CO2: 2% volume Can also be used for field calibration. For full calibration* or to allow configuration of gas levels, add communications kit C011305 and Portables PC C01832 (*subject to training).
Wall Mount Solution	**Not Available**

 Tetra 3

Manual Solution	**C011062 Gas test Kit**. Contains regulator, tubing, flowplate and Crowmag (Same as Gasman Gas test kit, except for flowplate) NB: Bump test gas levels are preset in the Instrument's firmware – these can be changed using PortablesPC. The default test gas levels are: O_2: 18% volume CO: (500ppm or dual sensor) 100ppm H_2S: (100ppm or dual sensor) 15ppm CH_4: 50% LEL CO_2: 2% volume (use QUAD or QUINT gas) Can also be used for field calibration. For full calibration* or to allow configuration of gas levels, add communications kit C011305 and Portables PC C01832.(*subject to training).
Wall Mount Solution	NB: Bump test gas levels are preset in Instrument firmware – these can be changed using PortablesPC. The default test gas levels are O_2: 18% volume CO: (500ppm or dual sensor) 100ppm H_2S: (100ppm or dual sensor) 15ppm CH_4: 50% LEL CO_2: 2% volume (use QUAD or QUINT gas) **T3 Gas Tester** (This unit contains no electronics, it does not process or store any information) Can perform calibration on bump failure only. Not suitable for full calibration. Requires fixed flow regulator, use of a cylinder holder recommended – see price list for options.

	Gas Pro **NB: Bump testing needs to be enabled in the Gas-Pro's settings, using Portables Pro 2. USB communications lead CH0103 or CH0104 required.**
Manual Solution	AC0101 — Non-pumped flow Plate C03052 — Fixed Flow regulator AC0201 — 1m standard tubing M04032 — Aspirator hose (for exhaust) CH0103 or CH0104 — USB lead – allows user to enable bump testing, and to use the bump test feature in Portables Pro 2 software. **NB: Bump test Gas levels are preset in the instrument but they can be changed using Portables Pro 2 software** Default test gas levels are: O2: 18% volume CO: (500ppm or dual sensor) 100ppm H2S: (100ppm or dual sensor) 15ppm CH4: 50% LEL CO2: 2% volume (use QUAD or QUINT gas) Customer can use these accessories to bump test via the instrument menu, or using the bump test tool in the Portables Pro 2 software (free download from our website).
Wall Mount Solution 1	**I-TEST for GasPro** (saves calibration and bump records) (for instruments with O2/LEL/CO/H2S/CO2 sensors only) Requires demand flow regulator, cylinder holder recommended. Can also be used for calibration.
Wall Mount Solution 2	**Q-TEST** (This unit contains no electronics, it does not process or store any information) Requires fixed flow regulator, use of a cylinder holder is recommended, see price list for options. Calibration on bump failure only.

	T4 **NB: Bump testing needs to be enabled in this instrument's settings, using Portables Pro 2. USB communications lead CH0103 or CH0104 required.**
Manual Solution	T4-CAL-CAP Replacement Bump Cap, comes with T4 anyway! C03052 Fixed Flow regulator AC0201 1m standard tubing CH0103 or CH0104 USB lead – allows user to enable bump testing, and to use the bump test feature in Portables Pro 2 software. NB: Bump test Gas levels are preset in the instrument Default test gas levels are: O2: 18% volume CO: 100ppm H2S: 15ppm CH4: 50% LEL (use QUAD gas) Customer can use these accessories to bump test via the instrument menu, or using the bump test tool in the Portables Pro 2 software (free download from our website).
Wall Mount Solution	**I-TEST for T4** (saves calibration and bump records) Requires demand flow regulator.

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	Triple Plus + and Detective+
Manual Solution	See Technical Note "PT010 Triple Plus + Gas Response Testing" C03052 Fixed Flow regulator AC0201 1m standard tubing M04032 Aspirator hose (for exhaust) Aspirator Flow Plate

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