



Advanced Calibration Designs, Inc.

# QC-100



# **Instruction Manual**

## ***QC-100***

### **QuickCheck System**

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## I. QC-100 OPERATING INSTRUCTIONS

1. Remove and discard any used *QuickCheck* Vial (QCV). If a vial is left attached to the QC-100 during storage the flow path may become saturated. This is especially a concern if more than one gas type of QCV is being used.
2. Press the On/Off button to turn on the QC-100. A green light indicates normal operation. A red light indicates a low battery condition. If a red light occurs, replace the two 'AA' batteries with fresh, alkaline batteries and repeat step two. (**Note:** Do not use a metal object to remove the batteries as this can short out the electrical circuit.)
3. Select the QCV with the gas type desired.
4. Squeeze the QCV firmly at the point where the label reads 'PINCH HERE TO BREAK INNER AMPOULE'. This allows the liquid to absorb into the wicking material and start releasing the test gas.
5. Install the QCV into the QC-100, To install insert the QCV snugly into the opening on the right side of the instrument near the top.
6. Attach any tubing or calibration adapters if needed. **Note:** A three foot section of chemically resistant tubing is included with the QC-100. If inappropriate tubing or adapters are used the chemical may be lost in the sample system without reaching the sensor to be tested.
7. Place the end of the QC-100, tubing or calibration adapter at the sensor to be tested.
8. If an appropriate response is not achieved the output of gas can be varied by opening (turning counter-clockwise) or closing (turning clockwise) the needle valve on the top side of the QC-100.
9. Repeat steps 7 and 8 for any other sensors to be tested, **Note:** Do not continue testing if the QCV is depleted.

10. Turn off the QC-100 by pressing the On/Off switch. Remove and discard the used QCV.
11. **Note:** Once the inner ampoule is broken the QCV should be quickly inserted into the QC-100. Opened QCV deplete quickly without being installed. Once testing is finished please remove and discard the QCV before storing the QC-100. Opened QCV should not be stored for longer than 24 hours.



## II. ACCESSORY ITEMS / PARTS LIST

The following items and spare parts are available for the QC-50:

<b>P/N</b>	<b>Description</b>
525-0001-12	NH <sub>3</sub> (Ammonia) - 12 Pack
525-0002-12	HCl (Hydrogen Chloride) - 12 Pack
525-0003-12	C <sub>7</sub> H <sub>8</sub> (Toluene) - 12 Pack
525-0004-12	C <sub>6</sub> H <sub>14</sub> (Hexane) - 12 Pack
715-0405-0X	Hose, with Quick Connect, 5'
730-0415-00	Hard Body Carrying Case
730-1050-00	Nylon Carrying Case

### III. SPECIFICATIONS

Useful Vial Life .....	Up to 8+ hours per vial
Warranty .....	One year
Dimensions (QC-100) .....	6.0 x 2.3 x 1.2" (15.2 x 5.8 x 3.0)
Dimensions (QCV) .....	0.4 x 1.3" (1.1 x 3.4cm)
Weight (QC-100) .....	8oz (220gm)
Weight (QCV) .....	0.14oz (4gm)
Operating Temperature .....	5 - 50°C
Relative Humidity (intermittent use) .....	0 - 100%
Battery Power .....	2 Alkaline 'AA'
Battery Life .....	10 hours

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