



CALIBRATION DOWNLOADING STATION

Gas Detection For Life

GX-2001 Calibration Station



Features

- No user interaction needed
- 3 minute calibrations
- Simplifies calibration and record-keeping
- Schedules and monitors next calibration
- Downloads datalogging to computer
- Reduces maintenance man hours
- Low flow alarm
- Auto fresh air
- Charges battery

Applications

- Instrument shops
- Maintenance shops
- Facilities with frequent calibration requirements
- Any GX-2001 user

The Cal Station provides truly automatic calibration of the GX-2001 gas monitors, removing any guesswork and reducing man-hours needed for calibration. It is an automated calibration and record-keeping system, which simplifies the routine service and data collection process from a Microsoft Windows based software program. In about 3 minutes, a GX-2001 can automatically have its data downloaded, a fresh air zero performed, verify its next required calibration, calibrate if necessary and record the performed calibration.

The only thing the user has to do is place the GX-2001 into the Cal Station and turn it on. The software and the Cal Station automatically do everything else. This removes the possibility of operator error, reduces employee-training, and helps minimize liability concerns by automating all of your documentation requirements for gas detection.

The calibration station consists of a control box (containing solenoid valves, flowmeters, control circuitry, lights, pump, and filter), a datalogging/charger with a calibration sample adapter, a 4 gas mix cylinder with demand flow regulator, and connecting cable for connection to a PC. (PC not included.)

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GX-2001 Calibration Station

Operation: The instrument is placed onto the downloading charger, turned on, and the operation begins as follows:

1. The datalogging charger communicates with the instrument through an IR port to download gas reading information, serial number, and last calibration date.
2. If the date has not yet reached the next calibration interval, then the unit is not calibrated and the instrument battery will remain on charge until removed or fully charged.
3. If the date has reached the next calibration interval, the station will flow filtered fresh air onto the sensors, and then it will "Fresh Air Zero" the unit.
4. The station then will flow the cal gas onto the sensors from a 4 gas mix cylinder, and automatically span the unit to the correct values. The datalogging software will record the values before and after spanning the unit.
5. The sensors are then purged with fresh air, and the station turns off the GX-2001.
6. The instrument remains on battery charge until removed or until the battery is fully charged.
7. During the cycle, indicator lights on the front panel show the current stage of the cycle.

Complete cycle takes around 3 minutes per unit, and requires no operator intervention during the cycle.

If there is a fault, such as a low cylinder or other flow problem, the calibration station will give a fault indication so the operator will recognize that the GX-2001 did not calibrate. If the GX-2001 cannot calibrate due to a bad sensor, bad gas, or other fault, the software program will show an error message. Note: A PC is required for operation and is supplied by the user. Specifications for user supplied PC are as follows:

System Requirements:

To use the Data Logging/Charger Station and Software, your personal computer must meet the following requirements:

- Operating Systems: Windows® 95, Windows® 98 SE, Windows® ME, Windows® 2000, or Windows® NT 4.0
- Processor: IBM compatible PC running Pentium® II, Pentium® III, or Pentium® IV processor, or equivalent processor
- Memory: 8 MB RAM minimum
- Hard Disk Space: 20 MB minimum
- CD-ROM Drive



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