

Lockout Specification | IntelliDoX

Automated Instrument Docking Station

The docking station must satisfy the following.

Physical Specifications

Size (d x w x h)	Physical size for individual docking modules in the docking station shall be no larger than: 5.4 x 14.2 x 4.3 inches / 13.8 x 36.2 x 10.9 cm.
Weight	Weight of individual docking modules shall be no more than: 4.2 lb / 1.91 kg.
Case Material	Case material shall be composed of impact- resistant PC+ABS (polycarbonate + acrylonitrile butadiene styrene).
Desktop / Wall Mount	The docking station must be able to be mounted on a desktop or on a wall via DIN rail using an integrated retractable stand/wall mount.

User Interfaces

Visual Display	<p>The visual display on each docking module shall be no smaller than a 320 x 240 pixel LCD, with a wide viewing angle.</p> <p>The visual display on each docking module shall clearly indicate operational status:</p> <ul style="list-style-type: none">• Gray - IDLE• Blue - USER PROMPT• Yellow - TEST• Green - PASS• Red – WARNING
Keypad	<p>Menu navigation must <u>not</u> be accessed via the visual display (such as touch screen) to ensure the docking module's visual display remains clean and readable in industrial working environments. Pushbutton menu navigation separate from the visual display shall be acceptable.</p> <p>Docking module menu navigation must enable access to:</p> <ul style="list-style-type: none">• Adjust Display Settings• Adjust Time and Date• Configure Gas Inlet Settings• One-touch Bump Test Initiation• One -touch Span Calibration Initiation (for detectors requiring calibration)• Enter Password (if option enabled)

Configurations

Gas Detector Compatibility	<p>The docking station must be compatible with one of the following:</p> <ul style="list-style-type: none">• BW Clip – single gas detector• ConneX1 – wireless single gas detector
Standard Configurations	<p>The docking station must be modular with capability of expanding up to a gang of five (5) connected docking modules. Ganged modules must be capable of performing different functions independently of one another, at the same time.</p> <p>No base unit shall be required to communicate to instrument docking module(s).</p> <p>The docking station must work with a demand flow regulator that meets the following maximum intake pressure specifications:</p> <ul style="list-style-type: none">• Disposable Cylinders: 1-1000 psig/70 bar• Refillable Cylinders: 0-3000 psig/207 bar
Gases Inlets	<p>The docking station must be able to connect: one (1) zero air connection and up to four (4) calibration gas cylinder connections.</p>
Gas Bottle Identification Number	<p>The docking station must be able to record the calibration gas cylinder mixture and lot number.</p>
Charging	<p>Each docking module must be able to charge rechargeable gas detectors.</p>

Power

Types	<p>The docking station must have a 12 V / 8.33A ITE power supply included in an Enabler Kit. The docking station must not require replacement batteries.</p>
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Interfaces

Network Accessibility	<p>One Ethernet interface shall be provided to connect between docking station and Ethernet network or directly to a PC. When docking modules are ganged each docking module shall have its own IP address, static or dynamic.</p>
USB Drive	<p>Each docking module shall provide data and configuration access via USB port. There must be an option to disable this feature to prevent external access to the docking module and the data stored, if required.</p>

Environmental

Temperature Range	Normal operation: -+50 to +95 °F / +10 to +35 °C
Humidity Range	10-90% RH (non-condensing) continuous

Automatic Tests

Span Calibration	Gas detector calibration must be fully automatic with Auto Zero and Auto Span functions. The docking module must advise as each automatic test takes place and when gas is applied. The docking module must indicate on its LCD screen the pass/fail outcome of each test.
Bump Test	Gas detector bump tests must be fully automatic with Standard Bump and FastBump (where compatible). The docking module must advise as each automatic test takes place and when gas is applied. The docking module must indicate on its LCD screen the pass/fail outcome of the test.
Bump Test Speed	<p>Fast Bump (where compatible): each gas detector shall complete a full bump test in the docking module within 10 seconds, including event log transfer, functional test and gas application.</p> <p>Standard Bump: each gas detector shall complete a full bump test in the docking module within 40 seconds (includes event log transfer, functional test, gas application and purge cycle).</p>
Audible	The docking station must test the function of all audible alarms on the detector by measuring the acoustical output.
Visual	The docking station must test the function of all visual alarms on the detector by measuring the light output.

Portability

No Computer Required	Detector bump test and span calibration must be possible with the docking station in the field without requiring use of PC.
Portable Kit	<p>A fully portable docking station kit must be available in configurations of up to two detector docking modules. The portable kit must be packaged in a rugged carrying case with wheels for ease of transport. The kit must be lockable and also include:</p> <ul style="list-style-type: none">• Ethernet Cable• AC Power Adaptor• Demand Flow Regulator• Up to two 58 L Gas Cylinders

Multiple Detector Availability	The docking station must provide simultaneous management of up to five (5) detector docking modules.
Multiple Power Options	There must be 110-240 VAC line power options and a 12 VDC NAVARRA plug input option.

Datalogging

Recorded	<p>The docking module must record gas detector:</p> <ul style="list-style-type: none"> • Event Logs • Data Logs (where compatible) • Bump Tests • Span Calibration Test Records.
Data Storage Period	The docking module must have 2 GB internal storage and must store at least 500,000 records (bump tests and span calibrations).

Certifications and Approvals

Certifications	The docking station must comply with the FCC Part 15 and ICES-003 Canadian EMI requirements and be rated to IP 20.
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Warranty

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