



IntelliSwitch Systems

538 SERIES

IntelliSwitch II

The fully-automatic 538 Series IntelliSwitch II™ gas switchover is CONCOA's revolutionary new generation of gas management systems. The IntelliSwitch II features an proprietary onboard I-Link web server technology allowing remote monitoring, secure system configuration, and e-mail notification of real-time system status and events. It is ideally suited to interchangeable service/continuous supply in analytical laboratory, chemical process, instrumentation, and critical gas supply applications. The IntelliSwitch II offers continuous gas pressure and flow control from liquid or high pressure cylinder sources. The end-user selects the mode of supply by the simple push of a button. Proprietary software logic lowers yearly gas costs by eliminating liquid cylinder vent loss and excess residual return.



Typical Applications

- High purity non-corrosive non-flammable gas supply
- Gas chromatograph and mass spec carrier and support gases
- Inductively coupled plasma (ICP) and ICP-mass spec continuous gas supply
- Incubator CO₂ and Nitrogen gas supply
- Biotech, pharmaceutical and forensic gas systems
- Microbulk changeover supply
- Central gas supply system for laboratory, research or process plants

Features

- Micro-Processor Control**
Fully automatic priority assignment
- Remote and Field-Adjustable Software**
Enables process flexibility and remote monitoring
- On-Site or Remote Source Selection**
Liquid cylinder or high-pressure service
- On Board Web Server and Remote Software**
Enables monitoring and control functions
- Low Loss Technology**
Reduces residual return
- Electronic Economizer**
Eliminates liquid cylinder vent loss
- Process Gas Pilot Valve**
Simple installation
- RS 232 Communication**
Provides remote monitoring of supply
- NEMA 4 Enclosure Standard**
Install anywhere

Materials

- Regulator and Valve Bodies**
Brass barstock
- Valve Stems**
316L stainless steel
- Valve Seats**
PCTFE
- Seals**
PTFE, PCTFE and Viton®
- Enclosure**
NEMA 4 powder-coated steel

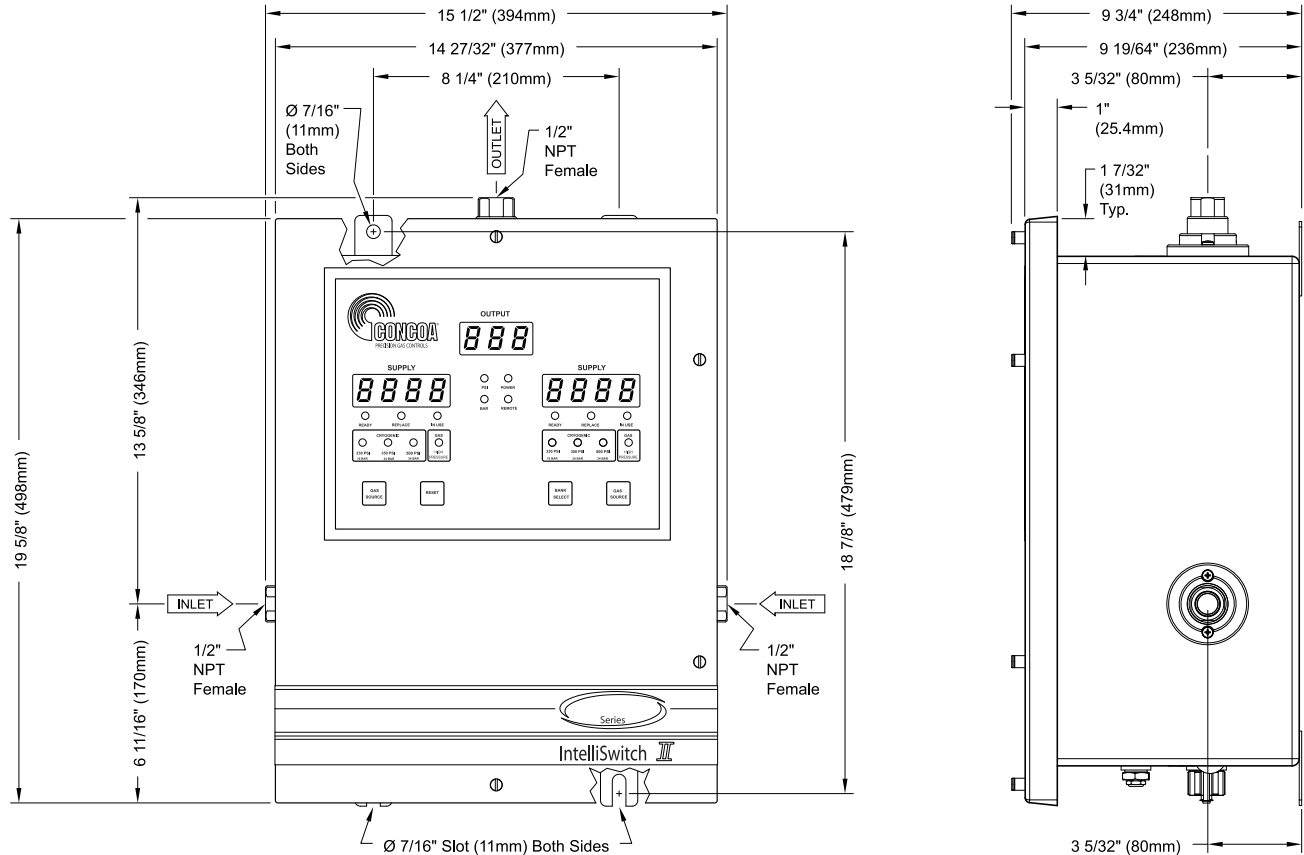
Specifications

- Power Requirements**
110 or 220 VAC (terminal block provided with 1/2" conduit hole)
- Maximum Inlet Pressure**
3000 PSIG (210 BAR)
- Temperature Range**
0°F to 140°F (-18°C to 60°C)
- Flow Capacity**
Cv = 1.0
- Filter**
40 micron
- Inlet Connection**
1/2" FPT
- Outlet Connection**
1/2" FPT
- Weight**
67 lbs. (30.4 kg)

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Installation Dimensions



Ordering Information

538	A	B	C	D	-CON
Series 538	Delivery Pressure	Right Side Connection	Left Side Connection	Assembly	Hose
	C: 100 PSIG (7 BAR)	0: 1/2" FPT port	0: 1/2" FPT port	6: 120 VAC	Please specify inlet connection (if applicable) CGA DIN 477 BS 341 and others available.
	D: 150 PSIG (10 BAR)	1: Diaphragm valves with 36" (900mm) stainless flexible hose	1: Diaphragm valves with 36" (900mm) stainless flexible hose	7: 240 VAC	
	E: 200 PSIG (14 BAR)	2: Diaphragm valves with 72" (1800mm) stainless flexible hose	2: Diaphragm valves with 72" (1800mm) stainless flexible hose		
		3: Manifold connector*	3: Manifold connector*		
		*See pages 54-55 for manifold ordering information			

Related Options

Option	Order Number	Description
Remote Alarm	Advantium Series	Provides audible and visible notification of a depleted supply bank to a remote location (See pgs. 68-71)
Vent Manifold Kit	52L Series	Wall-mounted manifold designed to equalize liquid cylinder head pressure
Switchover Station	518 1625	Safely mount and secure any switchover and two cylinders
AutoSwitch Floor Stand	830 7439	Support IntelliSwitch enclosure
Manifold Floor Stand	830 7437	Supports two standard length 12" (304.8mm) manifold extensions installed consecutively