

# GAS SWITCHOVER SYSTEMS

**CONCOA**  
PRECISION GAS CONTROLS

## 642 Series IntelliSwitch II™

- Fully Automatic Switchover
- I-LINK™ Communication
- NEMA-4 Enclosure

The Web-based IntelliSwitch II™ Gas Switchover is CONCOA's solution for integrated gas management systems. Intelliswitch II™ offers continuous pressure and flow control from liquid can or high-pressure cylinder sources, selectable by a simple push of a button or remotely via CONCOA's proprietary I-LINK™ communication. On-board software enables remote diagnostics and real time process control. CONCOA's proven software logic lowers yearly gas costs by eliminating liquid can vent loss and excess residual return, which makes the Intelliswitch II the right choice for process and metal fabrication industries.

### Advanced Features

- Integral Web Server  
*Enables Remote Access*
- Integrated Ethernet Connectivity  
*Seamless network integration*
- Integral Email notification  
*24/7 System monitoring*
- Low Loss Technology  
*Reduces Residual Return*
- Electronic Economizer  
*Eliminates Liquid Can Vent Loss*
- NEMA-4 Cabinet  
*Simple Installation*
- Internal Balance Stem Line Regulator  
*Ensures Total Process Control*

### Applications

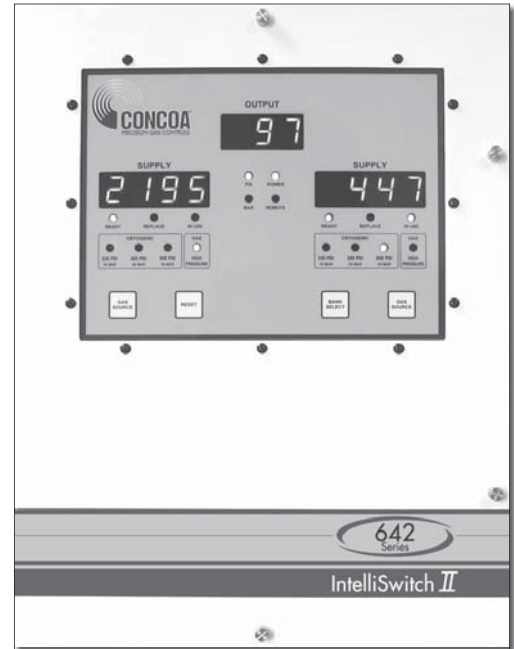
- Primary Steel Industry  
*Argon, Nitrogen, and Oxygen*
- Metal Fabrication  
*Argon, Carbon Dioxide, Nitrogen, and Oxygen*
- Chemical and Refining Industry  
*Air, Nitrogen and Oxygen*
- Defense and Aerospace  
*Air, Argon, Carbon Dioxide, Nitrogen, or Helium*

### Materials

- Regulator and Valve Bodies*  
Brass barstock
- Valve Seats*  
Neoprene and Viton®
- Seals*  
PTFE and Viton®
- Enclosure NEMA 4*  
Powder-coated steel

### Specifications

- *Filter*  
40-Micron
- *Maximum Inlet Pressure*  
3,000 PSI (210 BAR)
- *Temperature Range*  
0-140 Degree F
- *Mechanical Connections*  
½" Female NPT inlet and outlet  
⅛" Female NPT (external pilot inlet)
- *Communication Connectivity*  
Two channel NO/NC output relay alarm contacts  
RS-232 or RS-485 output connector  
Ethernet port
- *Weight*  
67 Lbs.
- *Flow Capacity*  
Cv = 1.0
- *Power Requirements*  
Selectable 110 or 220 VAC



Ask About Our

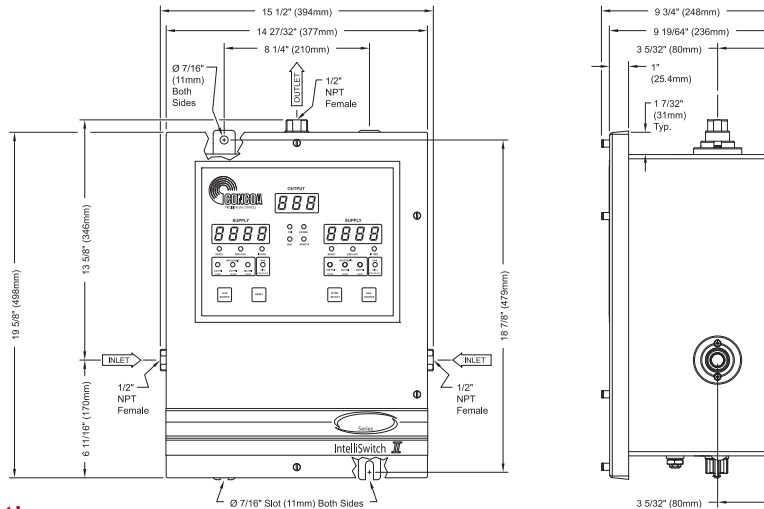
**EXTENDED**  
WARRANTY

On This CONCOA Product

# GAS SWITCHOVER SYSTEMS



## Installation Dimensions



## Ordering Information

642	A	B	C	D	E	F	G	H
Series 642	Delivery Pressure	Inlet Connection	Switchover Pressure Settings	Assembly	Inlet Connection	Left Bank No. of Stations	Inlet Connection	Right Bank No. of Stations
	3: 100 PSI/with web server	0: No Inlet Connection	0: Factory Default	6: 3000 PSI Inlet/120 VAC	0: 1/2" FPT Port*	0: No Pigtails	0: 1/2" FPT Port*	0: No Pigtails
	4: 150 PSI/with web server	1: CGA 580 Inert Gas	1: 100 PSI	7: 3000 PSI Inlet/240 VAC	2: Single 72" Pigtail†	1: One Station	2: Single 72" Pigtail†	1: One Station
	5: 200 PSI/with web server	2: CGA 320 CO <sub>2</sub>	2: 150 PSI		3: Master Valve with Single 72" Pigtail†	2: Two Stations	3: Master Valve with Single 72" Pigtail†	2: Two Stations
		3: CGA 540 Oxygen	3: 200 PSI		4: MicroManifold with 72" Pigtails†	3: Three Stations	4: MicroManifold with 72" Pigtails†	3: Three Stations
		4: CGA 346 Air	4: 250 PSI		5: Master Valve with MicroManifold and 72" Pigtails†	4: Four Stations	5: Master Valve with MicroManifold and 72" Pigtails†	4: Four Stations
		5: CGA 590 Industrial Air	5: 300 PSI		6: 628 Manifold with 36" Pigtails†	5: Five Stations	6: 628 Manifold with 36" Pigtails†	5: Five Stations
		6: DIN 6 Inert, He, & CO <sub>2</sub>	6: 350 PSI			6: Six Stations		6: Six Stations
		7: DIN 9 Oxygen	7: 400 PSI			7: Seven Stations		7: Seven Stations
		8: DIN 10 Nitrogen	8: 425 PSI			8: Eight Stations		8: Eight Stations
		9: Air and Inert						
	A: BS 8 CO <sub>2</sub>							
	C: No Inlet Connection with Tethered Pigtail							
					* Valid with F=0 Only † PTFE Core Pigtails		* Valid with H=0 Only † PTFE Core Pigtails	

## Options

Option	Order Number	Description
Remote Alarm	Advantium Series	Provides audible and visible notification of a depleted supply bank to a remote location (See pg. 48)
Vent Manifold Kit	629 Series	Wall-mounted manifold designed to equalize liquid cylinder head pressure.
Switchover Station	518-1625	Safely mount and secure any switchover and 2 cylinder
AutoSwitch Floor Stand	830-7439	Support AutoSwitch Enclosure
Manifold Floor Stand	830-7437	Supports 2 standard length (12") manifold extensions installed consecutively
ADI 9501	9906-9501	3000 PSI IntelliSwitch installation manual