

GAS SWITCHOVER SYSTEMS



642 SERIES INTELLISWITCH™ II

The web-enabled IntelliSwitch II gas switchover is CONCOA's solution for integrated gas management systems. Intelliswitch II offers continuous pressure and flow control from liquid or high-pressure cylinder sources, selectable by a simple push of a button or remotely via the on-board web server. CONCOA's proven software logic lowers yearly gas costs by eliminating liquid cylinder vent loss and excess residual return.

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

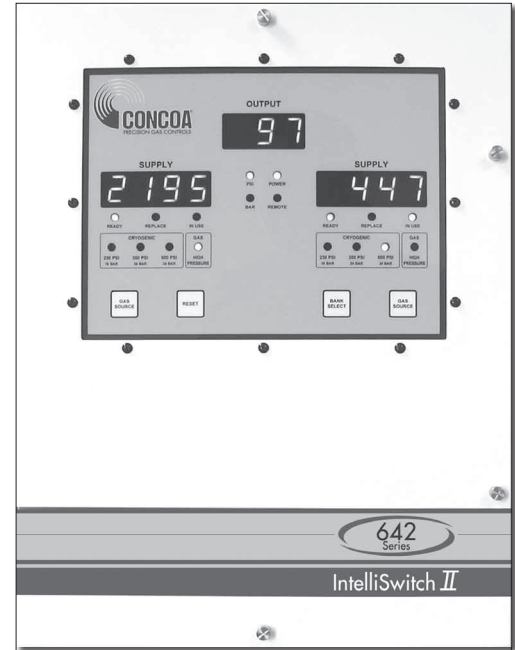
Eliminates liquid cylinder vent loss

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

Viton® and PCTFE

Seals

PTFE, PCTFE and Neoprene

Enclosure (NEMA 4)

Powder-coated steel

Hose Core

PTFE

Hose Fittings

Brass

Hose Casing

Stainless steel armor-cased

Specifications

Maximum Inlet Pressure

3,000 PSIG (210 BAR)

Temperature Range

0 to 100°F (-18 to 40°C)

Filter

40-Micron

Mechanical Connections

½" FNPT inlet and outlet

Communication Connectivity

Two channel NO/NC output relay alarm contacts
Ethernet port

Weight

67 Lbs. (30 kg)

Cv

1.0

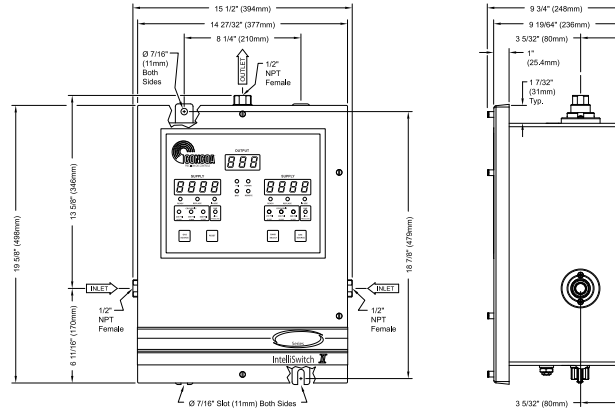
Power Requirements

110 or 240 VAC (terminal block with ½" conduit hole)

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Installation Dimensions



DISTRIBUTION SYSTEMS

Ordering Information

Series	Outlet Pressure	Hose Cylinder Connection	Pressure Settings	Assembly	-Left Bank Inlet Connection	Left Bank No. of Stations	Right Bank Inlet Connection	Right Bank No. of Stations
642	3: 0-100 PSIG (0-7 BAR)	0: No Inlet Connection	0: Factory Default	7: 3000 PSIG Inlet	1: 1/2" FNPT Port*	0: 1/2" FNPT Port	1: 1/2" FNPT Port*	0: 1/2" FNPT Port
	4: 0-150 PSIG (0-10 BAR)	1: CGA 580 (Inert Gas)	1: 100 PSIG (7 BAR)		2: Single 72" Hose	1: One Station	2: Single 72" Hoses	1: One Station
	5: 0-200 PSIG (0-15 BAR)	2: CGA 320 (Carbon Dioxide)	2: 150 PSIG (10 BAR)		3: Master Valve with Single 72" Hose	2: Two Stations	3: Master Valve with Single 72" Hoses	2: Two Stations
		3: CGA 540 (Oxygen)	3: 200 PSIG (15 BAR)		4: MicroManifold with 72" Hoses	3: Three Stations	4: MicroManifold with 72" Hoses	3: Three Stations
		4: CGA 346 (Air)	4: 250 PSIG (17 BAR)		5: Master Valve with MicroManifold and 72" Hoses	4: Four Stations	5: Master Valve with MicroManifold and 72" Hoses	4: Four Stations
		5: CGA 590 (Industrial Air)	5: 300 PSIG (20 BAR)		6: 628 Manifold with 36" Hoses	5: Five Stations	6: 628 Manifold with 36" Hoses	5: Five Stations
		6: DIN 6 (Inert, Helium, & Carbon Dioxide)	6: 350 PSIG (25 BAR)			6: Six Stations		6: Six Stations
		7: DIN 9 (Oxygen)	7: 400 PSIG (28 BAR)			7: Seven Stations		7: Seven Stations
		8: DIN 10 (Nitrogen)	8: 425 PSIG (30 BAR)			8: Eight Stations		8: Eight Stations
		9: BS 3 (Air, Argon, Helium & Oxygen)						
		A: BS 8 (Carbon Dioxide)						
		C: No Inlet Connection with Tethered Hose			* Valid with Left Bank No. of Stations = 0 Only		* Valid with Right Bank No. of Stations = 0 Only	

Related Options

Part Number	Option	Description
575 0025-01-000	Altos 2 Alarm	Provides audible and visible notification of a depleted supply bank to a remote location (See page 46)
629 Series	Vent Manifold Kit	Wall-mounted manifold designed to equalize liquid cylinder head pressure.
518 1625	Switchover Station	Safely mount and secure any switchover
830 7439	AutoSwitch Floor Stand	Support AutoSwitch enclosure
830 7437	Manifold Floor Stand	Supports two standard length (12") manifold extensions installed consecutively