

NEW

ISS DUAL RANGE CONTROLLER



Dual Range Bladder Pump Controller

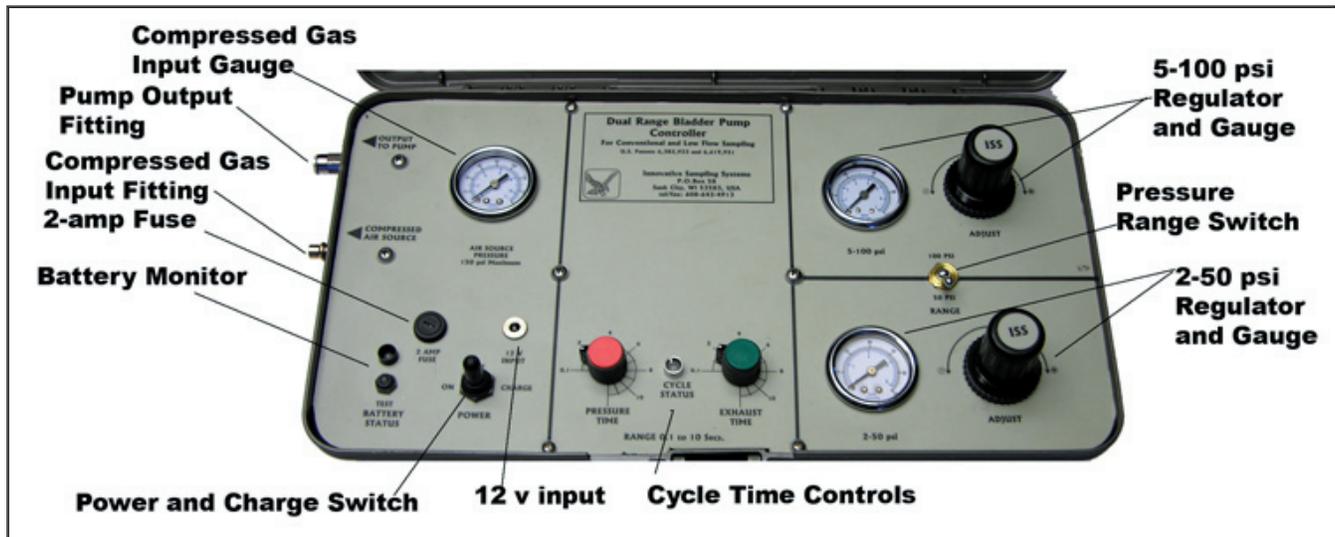
The New 2012 model of the ISS Dual Range Bladder Pump Controller features lower power electronics and side entry pneumatic ports for extended operating times and easier use in inclement weather. The controller is provided with an adjustable sequential electronic dual timing system and pneumatic controls that provides air under precise pressure to drive the pump. Both parts of the system are coordinated to allow for adjustment of the timing cycles and applied pressure to permit easy control of conventional or low flow sampling.

The 2012 model Dual Range Controller features:

- An air filter used to remove particles and water droplets from the incoming compressed air source. The filter is of the automatic drain type, venting to the rear of the case
- A battery voltage monitoring system that allows users to check the charge state at any time
- A charger for the 50+ hour operating time lead acid gel cell battery and a power cord with accessory jack plug for use with an external 12 volt DC source, if needed.
- A pressure gauge to monitor the pressure of the incoming compressed air or gas supply.
- Two gauges and adjustable regulators to allow operation in most monitoring wells, ranges from 2-50 psi and 5-100psi.
- Electronic timers for the pressure and exhaust components range 0.1 to 10 seconds.
- All electronics are modular and potted, controls have boots or shaft seals to prevent ingress of moisture. The input jack is provided with a sealing plug.
- Compressed air input and pump output fittings are on the side of the case to allow lid closure.

The long term reliability of the controller remains a primary benefit. Over 250 controllers have been supplied to domestic and international customers, since its introduction.

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Specifications

Air Contacting Parts

Stainless steel, brass, zinc, aluminum, nylon, nitrile rubber, polyurethane and glass filled nylon.

Pneumatic Components

Regulators: Adjustable 2-50 psig and 5-100 psig with pneumatic range switch

Gauges: 0-60, 0-100 and 0-160 psig, 1 1/2-in Bourdon type

Solenoid: Air assisted pilot, 0-150 psig maximum inlet and operating pressure, 12 volt >1 watt solenoid. Min. 40 psi needed for pilot operation.

Filter: Internal, 5 micron, 18 scfm flow at 100 psig, self draining

Inlet: 1/8-in npt with adapter for 1/4-in npt and "M" type quick connect

Outlet: 1/4-in OD tube push to connect fitting

Fittings: Internal -push to connect and barb type with steel clips

Electronic Components

Controller: Electronic timers for pressure (on) and vent (off) cycles, adjustable from 0.1 to 10 sec \pm 10%, repeat accuracy \pm 0.1% for on and off times. Timer status provided by dual color (red/green) LED indicator

Battery Status: Front panel push button operates a comparator to provide LED indication of voltage, Green 11 to 13.6 volts, Yellow below 11 or above 13.6 volts \pm 5% both ranges. Circuit also connected when power switch placed in "Charge" position and when a charger is connected

Battery: 12 volt lead acid gel cell type with a rated output of 4.5 A.H.

Charger: External 12 volt DC output at 500 ma, 240 volt 50 Hz input, with 2.3 mm coaxial plug with "Charging" and "Charged" LED indicators.

Fuse: 1 1/4-in type, 2 amp maximum

Power Cord: 4-ft with 2.3 mm coaxial plug connector and auto accessory plug

Hardware

Case: Polypropylene 2 piece hinged and lockable case with fold down handle. 15 3/4-in w x 9-in d x 7.75-in h

Front Panel: 0.063-in aluminum with Mylar faced decal, secured to case with stainless steel fittings and gasket.

Weight: 11 lb with accessories

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