# X-TREME MANIFOLD CONTROL®
MADE BY PRECISE EQUIPMENT COMPANY®

IX SERIES™ | RX SERIES™ | SX SERIES™

**INDUSTRIAL**
**FULLY AUTOMATIC**
**FUEL GAS**

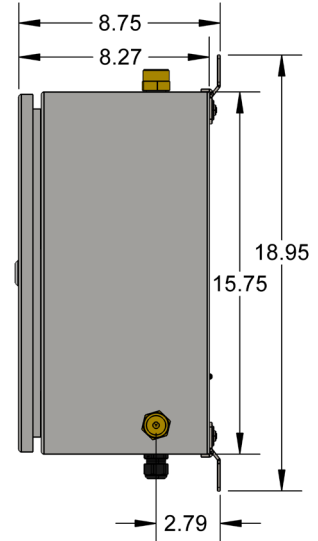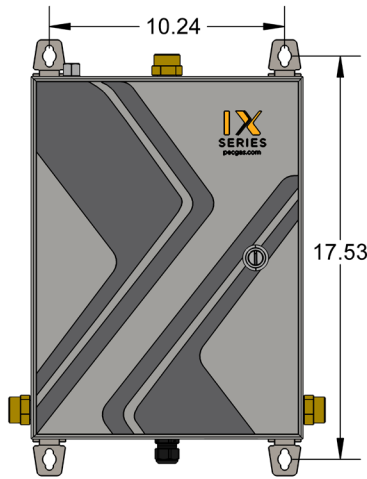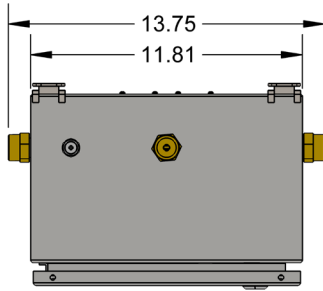c **UL** us
LISTED

**MEASURING EQUIPMENT**
**E485978**

The **IX Series® for fuel gases** uses modern technology and industry leading UL / cUL certification to provide the industrial gas market with an intrinsically safe fuel gas control system that brings focus to customers' needs. The X-Treme Manifold Control® provides real time alerts to any electronic device, and updates on gas status and historical usage online, on an easy-to-read dashboard. This dashboard is configured to be viewed on a mobile device, offering flexibility when using the system from a phone, tablet, or PC. Our complimentary service is new to the industry, and truly a comprehensive alternative to other telemetry options.

Dimensions:
- 13.75
- 11.81
- 10.24
- 17.53
- 8.75
- 8.27
- 18.95
- 15.75
- 2.79

## FEATURES

**24/7 LEAK DETECTION**
Will continuously monitor the reserve supply and provide leak indication lights and push a status alert if pressure is lost.

**CYLINDER MANAGEMENT**
Any cylinder type can be used. Select from high-pressure or low-pressure source, including three different relief valve settings.

**INTERNATIONAL POWER INPUT**
AC 85 – 264V 50/60Hz 0.7A Class II (Includes a 6' Power Cord with NEMA 5-15P plug).

**FULL-AUTOMATIC CHANGEOVER & EASY RESET**
Once in-use side is depleted, the reserve side will flow uninterrupted, and the system will automatically switch to the reserve supply maintaining the integrity of the delivery gas supply. Manifold will reset the empty bank automatically on cylinder changeout.

**GAS PRIORITY CONTROL**
Can select a side being the primary supply when using a bulk supply and high-pressure mixed cylinder configuration by prioritizing the left or right bank.

**3000 PSI** MAXIMUM INLET

**UL cUL Listed for Fuel Gas applications**
Intrinsically Safe Gas Panel

**WIRELESS & LAN CONNECTIVITY**
Connect to web-based telemetry using Wi-Fi network.

**SERIAL 232/485 CONNECTION**
Connect to Modbus or stream data using other protocols.

**FLEXIBILITY**
Uses individual high-pressure cylinders, and multi-cylinder packs interchangeably without modification.

**WEATHERPROOF**
Rated for IP65 location and can be placed outside in direct water spray or dusty conditions.

**GAS STATUS LED'S**
3-LED status indicators for each gas bank.
1- Economizer "ON" LED  for each gas bank
1- "Leak Detected" LED for each gas bank

**ACCURATE PRESSURE DISPLAY**
Improved inlet pressure reading and switchover setting to 1-PSI increments.

**SECURE CONTROLLER**
Tamperproof user settings guarded by password protects the integrity of the controller from unauthorized use.

## APPLICATIONS

**Continuous Flow with Auto Reset**
Provides a continuous flow of gas. Once the In-Use bank is depleted the Reserve bank will flow uninterrupted. After empty cylinders are replenished, the control automatically resets that bank to Ready for Use or to In-Use, depending on if the bank has a priority setting.

After empty cylinders are replenished, the control automatically rests that bank to Ready for Use or to In-Use, depending on if the bank has a priority setting.

**Cutting/Heating/Brazing**
Perfect for small or large fabrication shops using gas for individual torches, or cutting machines

**Furnace Heat Treating**
Delivery Pressure Models up to 400 psig delivery depending on gas type.

**Carbonizing**
Use as uninterrupted supply of raw gas for process.

**Hydrogenating**
Use hydrogen as an uninterrupted supply of raw gas for process.

**Leak Detection Mix**
Use as an uninterrupted supply of gas for process.

## MATERIALS

**Mechanical Enclosure**
Steel powder coated enclosure with latch, Rated IP 65

**Controller Enclosure**
Polycarbonate with lockable latches, rated, IP65

**Regulators**
Brass bar stock and fabric reinforced neoprene diaphragms, encapsulated PTFE seat.

**Tubing**
3/8" stainless steel tubing with 2-ferrule tube connections.

**Solenoid Valves**
Brass explosion 12 VDC explosion proof coils.

**Shutoff valves**
Forged brass and conform to CGA V-9 and CGA V-1

**Headers**
Brass headers, hydrostatically tested to Minimum of 4500 psig

**Pigtails**
Flexible Stainless-Steel Teflon® or Tefzel® inner core, Cleaned, Capped, & Bagged

**Cleaning**
Meets CGA G-4.1

## SYSTEM INCLUDES

**UL cUL Listed**
IX Series® Gas Panel
X-Treme Manifold Control®

**Cylinder Leads**
Flexible stainless-steel pigtails with gas specific CGA cylinder with check valve connection. IX 6 Series include an individual dry flame arrester/check valve.

**Pipeline Relief Valve Outlet Assembly**
Includes pipeline relief safety relief valve set to either 200 or 500 psig depending on the final delivery pressure.

IX 50HF, IX 50LF, & IX6 Series outlet assembly includes a pipeline flashback arrester with the outlet relief valve assembly

**Headers**
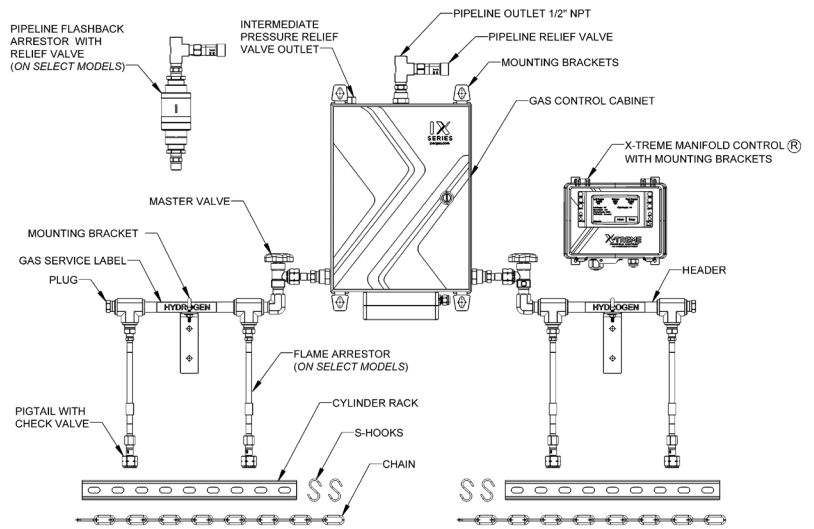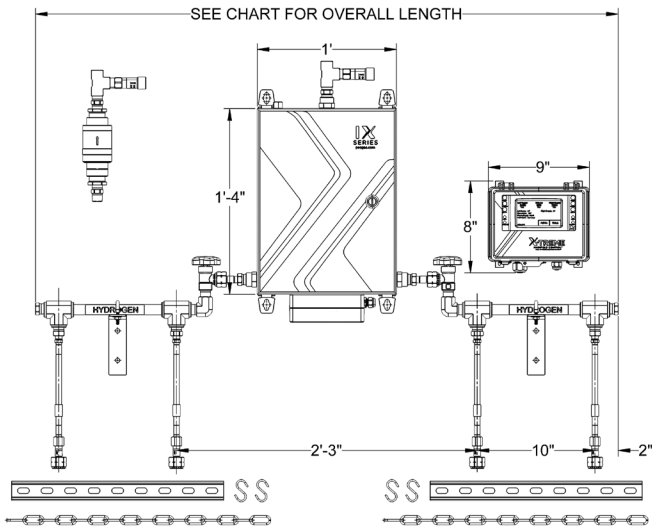Expandable heavy wall brass. Rated 3000 PSIG working pressure

**Shutoff Valves**
Header master valves provide a layer of protection when replacing high-pressure cylinders

**Mounting Hardware**
Mounting brackets for gas panel, controller, and headers

**Cylinder Restraints and Chain**
Unistrut channel conforms to ASTM A1011 SS GR 33 E-Coat finish

| UL /cUL SERIES | GAS SERVICE | DELIVERY RANGE | RATED INLET PRESSURE |
|---|---|---|---|
| IX 1F | Hydrogen, Methane | 5 - 125 PSIG | 3000 PSIG |
| IX 2F | | 5 - 200 PSIG | |
| IX 3F | | 20 - 400 PSIG | |
| IX 50HF | | 2 - 50 PSIG | |
| IX 50LF | LPG | 2 – 50 PSIG | 500 PSIG |
| IX 6 | Acetylene | 2 – 15 PSIG | |

### NUMBER OF CYLINDERS & OVERALL LENGTH

| Header Type | 2 | 4 | 6 | 8 | 10 | 12 |
|---|---|---|---|---|---|---|
| Standard | 2' – 4" | 4' – 6" | 6' – 2" | 7' – 10" | 9' – 0" | 10' – 8" |
| Close Space | 2' – 0" | 4' – 0" | 4' – 0" | 4' – 10" | 5' – 8" | 6' – 6" |