

MINI ICS

Process Oxygen Monitoring and Inert Gas Control System



Oxygen analysis and control doesn't have to be complicated or expensive

The model MINI ICS is the only custom instrument available OFF-THE-SHELF that automatically controls Oxygen in your process.

Combine this economical instrument with one of Neutronics' standard process Oxygen sampling systems for a complete custom safety solution at a commodity price!

FEATURE PACKED BUT LOW FAT

- Compact, modular design
- Extra large display for high visibility
- Easy to use 3-button operator interface
- Multiple analog & digital outputs- 4-20mA, 0-1/5/10 VDC, RS-232/485 serial port
- Alarm relay outputs available- High O2 level, fault, inert gas control and calibration



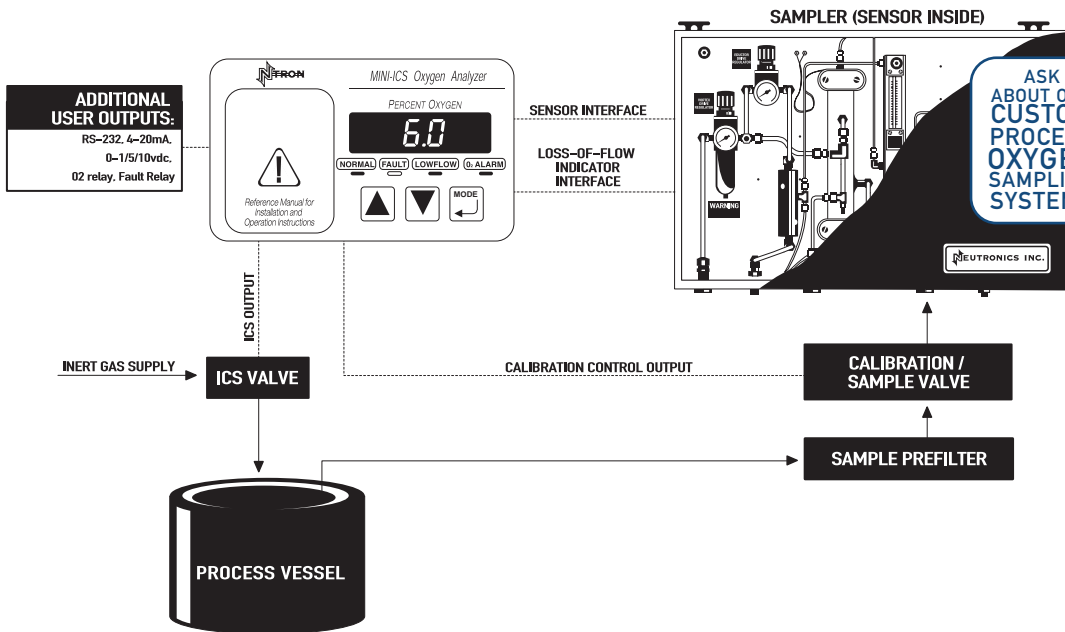
From left to right:
Explosion Proof, Purgeable
Wall-mount, Compact
Wall Mount, Panel Mount



The ICS... Control Oxygen in your process for safety and economy

- **INCREASES SAFETY MARGINS**
CONTINUOUSLY MEASURES OXYGEN TO CONTROL INERT GAS PURGING
- **LOW INSTALLATION COSTS**
NO ADDITIONAL HARDWARE/SOFTWARE NEEDED, READY TO INSTALL
- **LOW MAINTENANCE**
REAL-TIME SENSOR PERFORMANCE AND SAMPLE FLOW ALARMS WITH RELAYS
- **LOW OPERATING COST**
COMPLETELY AUTOMATED, STAND-ALONE SYSTEM
- **REDUCES INERT GAS CONSUMPTION & VOC EMISSIONS**
USES INERT GAS ONLY AS NEEDED TO MAINTAIN SAFE OXYGEN LEVELS
- **USABLE WITH ANY NEUTRONICS PROCESS OXYGEN SAMPLING SOLUTION**

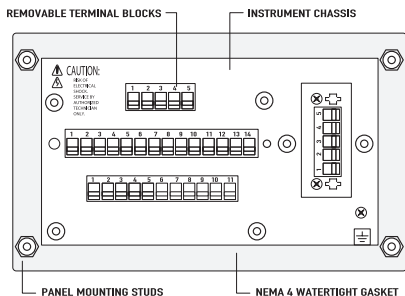
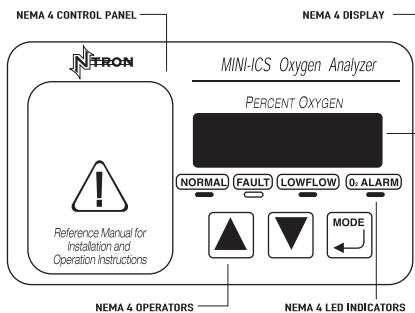
...HERE'S HOW IT WORKS



The Neutronics Inerting Control System (ICS) is the only proven system that automatically controls the level of oxygen in your process, keeping it at a safe level.

Originally developed for one of the country's largest chemical manufacturers, Neutronics ICS has been proven reliable in thousands of installations and is **GUARANTEED** to work in your process vessel.

MINI-ICS SPECIFICATIONS



BACK PANEL DETAIL

NEMA 4 Panel-mount unit pictured above

Sensor	Galvanic, available in various models to meet the application
Measurement Range	0.1% to 50% Oxygen - auto or fixed range
Display	0.75" 7-segment LED alphanumeric display; color-coded LED's for system status, Red=Low Flow / O2 Alarm, Yellow=Fault, Green=Normal
User Interface	3 push-button operators; MODE, UP, DOWN
Response Time	$T_{90} < 15$ seconds
Accuracy	+/- 1% full scale deflection
Signal Interface	4-20 mA analog output, 0-1/5/10 VDC analog output, RS-232 service port,
Alarms & Controls	User-adjustable set points with relay outputs for inerting control solenoid valve, calibration solenoid valve, fault alarm, O2 alarm
Power	110/220 VAC 50-60 Hz, or 12/24 VDC (10 Watts)
Enclosure Options	NEMA 4 Panel Mount, NEMA 4 and NEMA 4X Wall Mount, NEMA 4/7 Explosion Proof, 19" Rack Mount. Custom multi-module rack mount enclosures are also available.
Warranty	Limited, 1 year

NITRON A DIVISION OF **NEUTRONICS INC.**
456 Creamery Way, Exton, PA 19341

Phone: 610.524.8800 • Fax: 610.524.8807 • Email: info@neutronicsinc.com
www.neutronicsinc.com