

# 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**

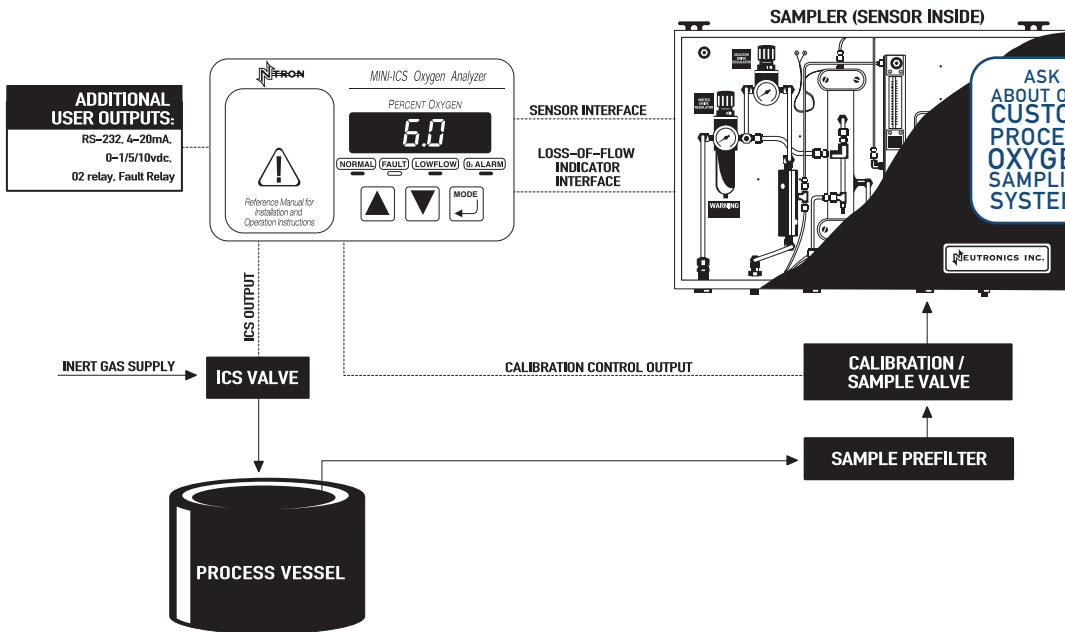
ML127, Rev A

SEE REVERSE FOR SPECS

**NEUTRONICS** 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

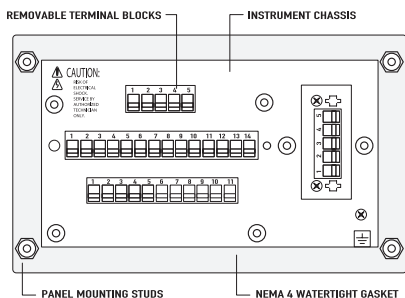
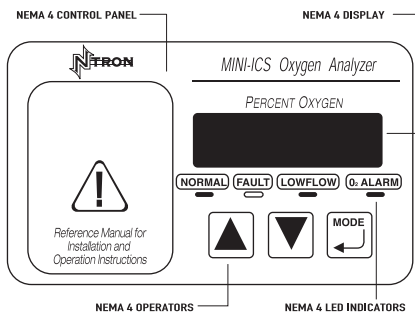
## ...HERE'S HOW IT WORKS



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

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