



MEASUREMENT, CONTROL AND WARNING UNIT FOR SENSORS

LON[®] CENTER 2000



ADOS GmbH

Instrumentation and Control

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Application

ADOS LON® CENTER 2000 is a Test, Control and Warning unit for techniques of gas-sensorics. It continuously monitors the surrounding air and provides an early warning of dangerous, explosive and non-combustible gases and vapours.

Various types of sensor can be connected to the system via the LON® field-bus.

The ADOS LON® CENTER 2000, together with the ADOS 592 CO LON® gas test-sensor, conforms to all the VDI guidelines.

Ether	C ₄ H ₁₀ O
Helium	He
Hydrogen	H ₂
Hydrogen chloride	HCL
Methane (Natural gas)	CH ₄
Neon	Ne
Oxygen	O ₂
Petroleum spirit	
Propane	C ₃ H ₈
Toluene	C ₇ H ₈
Xylene	C ₈ H ₁₀

Fields of Application

- Monitoring of heating systems
- Garages
- Liquid gas storage rooms
- Laboratories
- Cold-storage houses
- Plastic processing plants
- Chemical industries
- Paint manufacturing plants
- Concentration measurement of O₂
- and many more

Accessories

Signal horn, Warning light, Warning banner, Test meters, Plotter, LON® relay module, LON® Repeater, Stand-by Power supply UPS 2000 - 24V
Additional accessories will be offered, according to the system required.

Features

- Choice of up to 40 different test sensors.
- one monitoring area (optionally, up to 5 areas).
- Menu-assisted operation via 4 keys.
- 5 alarm levels independently adjustable from 5 to 100% of the test range selected.
- Ready, Fault and Gas warning indicators.
- 6 floating alarm outputs for driving external warning and control equipment.
- Floating contact connections for fault and mains failure
- Serial interface output, RS232
- LON® interface.
- 4-20mA current interface.
- Hammer-proof thermoplastic housing
- High operational reliability
- Low current consumption
- Easy installation
- UPS unit available.

Technical Data

Sensors:	LON® 4-wire techniques, galvanically isolated, data transfer 78 kB/s 24V sensor supply
Ranges:	adjustable via software
Digital input:	Opto-isolated input with isolated voltage supply (siren cancel, ventilator fault)
Digital outputs:	Floating Control outputs, max. 230V 2A Warning outputs, max. 230V 4A
Battery operating time:	>10 hours with "mains failure" display >1 hour optional, retaining all functions
Standard output signals:	Serial interface RS 232 Analog output, 4-20 mA
Ambient temperature:	-10...+40°C
Dimensions (WxHxD):	240 x 160 x 90 mm
Mains connection:	230 V~ / 50 Hz , 115V~ / 60 Hz or optionally, 24 V=, 50 VA
Test certificate:	TÜV acceptance test according to VDI 2053, together with ADOS 592 CO LON®
Approval symbol:	931-981289

Measurable gases

Gas	Formula
Acetylene	C ₂ H ₂
Alcohol	e.g. C ₂ H ₆ O
Ammonia	NH ₃
Butane	C ₄ H ₁₀
Carbon dioxide	CO ₂
Carbon monoxide	CO
Carbon tetrachloride	CCl ₄
Chloroform	CHCl ₃