



ADOS
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Instrumentation and Control



**MEASUREMENT, CONTROL AND
WARNING UNIT FOR SENSORS**

LON[®] CENTER 2000



ADOS GmbH

Instrumentation and Control

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since 1997
DIN EN ISO 9001
ID: 0110071011



Application

ADOS LON®Center 2000 is a test, control and warning unit for the 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 TOX CO LON® gas test-sensor, conforms to the German guideline VDI 2053.

Fields of Application

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

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, RS 232
- LON®-Interface
- 4 – 20 mA current interface
- Hammer-proof thermoplastic housing
- High operational reliability
- Low current consumption
- Easy installation
- UPS unit available

Measurable gases

Gas	Formula
Acetylen	C ₂ H ₂
Ether	C ₄ H ₁₀ O
Alchole	e.g. C ₂ H ₆ O
Ammonia	NH ₃
Petroleum spirit	
Butane	C ₄ H ₁₀

Chloroform	CHCl ₃
Hydrogen chloride	HCl
Helium	He
Carbon dioxid	CO ₂
Carbon monoxid	CO
Methane (natural gas)	CH ₄
Neon	Ne
Propane	C ₃ H ₈
Oxygen	O ₂
Carbon tetrachloride	CCl ₄
Toluene	C ₇ H ₈
Hydrogen	H ₂
Xylene	C ₈ H ₁₀

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.

Technical Data

Details as for control unit

Sensors:	LON® 4-wire techniques, galvanically isolated, data transfer 78 kB/s 24V sensor supply
Ranges:	adjustable via software
Digital inputs:	Opto-isolated input with isolated voltage supply (siren cancel, ventilator fault)
Digital outputs:	Floating Control outputs max. 230 V 2A Warning outputs max. 230 V 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 °C to +40 °C
Dimensions (WxHxD):	240 x 160 x 90 mm
Mains connection:	230 V~ / 50 Hz; 115 V~ / 60 Hz or optionally 24 V= 50 VA
Test certificate:	TÜV acceptance test according to VDI 2053, together with ADOS 592 TOX CO LON®
Approval symbol:	931-981289