



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

# LON<sup>®</sup> CENTER 2000



**ADOS GmbH**

**Instrumentation and Control**

**P.O. Box 500 444 · 52088 Aachen · FRG**

**Trierer Strasse 23 – 25 · 52078 Aachen · FRG**

**Tel: +49 (0) 241 / 97 69 - 0**

**Fax: +49 (0) 241 / 97 69 - 16**

**E-Mail: [info@ados.de](mailto:info@ados.de)**

**[www.ados.de](http://www.ados.de)**



## 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 TOX 592 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 O<sub>2</sub>
- ☒ 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 <sub>2</sub> H <sub>2</sub>
Ether	C <sub>4</sub> H <sub>10</sub> O
Alchole	e.g. C <sub>2</sub> H <sub>6</sub> O
Ammonia	NH <sub>3</sub>
Petroleum spirit	
Butane	C <sub>4</sub> H <sub>10</sub>
Chloroform	CHCl <sub>3</sub>
Hydrogen chloride	HCl

Helium	He
Carbon dioxid	CO <sub>2</sub>
Carbon monoxid	CO
Methane (natural gas)	CH <sub>4</sub>
Neon	Ne
Propane	C <sub>3</sub> H <sub>8</sub>
Oxygen	O <sub>2</sub>
Carbon tetrachloride	CCl <sub>4</sub>
Toluene	C <sub>7</sub> H <sub>8</sub>
Hydrogen	H <sub>2</sub>
Xylene	C <sub>8</sub> H <sub>10</sub>

## 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 24 V 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:	14 °F to 104 °F
Dimensions (WxHxD):	9.45 x 6.3 x 3.54 inch
Mains connection:	115 V~ / 60 Hz; 230 V~ / 50 Hz; or optionally 24 V= 50 VA
Test certificate:	TÜV acceptance test according to VDI 2053, together with ADOS TOX 592 CO LON®
Approval symbol:	931-981289