



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

# LON<sup>®</sup> CENTER 2000





## Application

ADOS LON<sup>®</sup> 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<sup>®</sup> field-bus.

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

## 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<sup>®</sup>-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
Acetylene	C <sub>2</sub> H <sub>2</sub>
Alcohol	e.g. C <sub>2</sub> H <sub>6</sub> O
Ammonia	NH <sub>3</sub>

Butane	C <sub>4</sub> H <sub>10</sub>
Carbon dioxide	CO <sub>2</sub>
Carbon monoxide	CO
Carbon tetrachloride	CCl <sub>4</sub>
Chloroform	CHCl <sub>3</sub>
Ether	C <sub>4</sub> H <sub>10</sub> O
Helium	He
Hydrogen	H <sub>2</sub>
Hydrogen chloride	HCL
Methane (Natural gas)	CH <sub>4</sub>
Neon	Ne
Oxygen	O <sub>2</sub>
Petroleum spirit	
Propane	C <sub>3</sub> H <sub>8</sub>
Toluene	C <sub>7</sub> H <sub>8</sub>
Xylene	C <sub>8</sub> H <sub>10</sub>

## Accessories

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

## Technical Data

Sensors:	LON <sup>®</sup> 4-wire techniques, galvanically isolated, data transfer 78 kbps
Ranges:	24 V sensor supply adjustable via software
Digital input:	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 ... + 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 <sup>®</sup>
Approval symbol:	931-981289