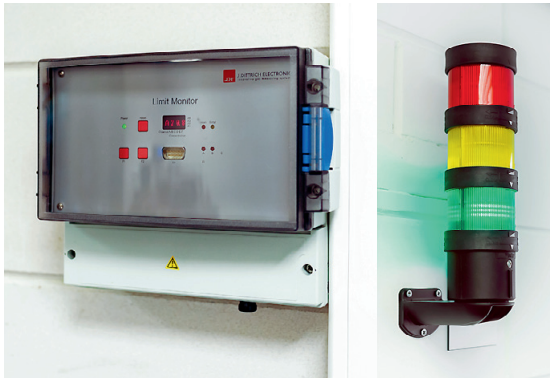


Oxygen detection Dittrich GWZ



The limit monitor GWZ is a freely programmable gas alarm system, and it is equipped with a rolling display. Altogether from 2 up to a maximum of 6 gas measuring systems can be connected to one limit monitor GWZ-S2, S4 or S6. It is also possible to connect external features such as a "traffic light" indicator with sirene, NO/NC contacts are available so one can forward the alarm to their in house alarm/monitoring system or to a ventilation system to boost the air circulation. The unit can be used for several gasses such as O2 and CO2.

Limit monitors GWZ-S2 and GWZ-S4

The limit monitor GWZ-S2 (GWZ-S4) is a freely programmable gas alarm system, which is equipped with a rolling display. Altogether a maximum of 2 (4) gas measuring systems from J. Dittrich Elektronik can be connected to one limit monitor GWZ-S2 (GWZ-S4). Thus, one limit monitor can monitor different types of gases simultaneously. When the values exceed or fall below a previously defined limit value, the unit can be operated with 1 or 2 alarm thresholds. A grouping of the alarms is possible. GWZ-S2 and GWZ-S4 both have 4 output relays, 2 of which can be assigned freely (alarm relays). Two relays are fixed - one for activating the acoustic alarm and one for indicating fault conditions. GWZ-S2 is equipped with 2 input channels A and B, GWZ-S4 with 4 input channels A, B, C and D.

PRODUCT CHARACTERISTICS GWZ-S2 (GWZ-S4)

Water-proof housing suitable for wall mounting
Power supply voltage 230 V AC
Up to 2 (4) gas measuring systems from J. Dittrich Elektronik can be connected
1 alarm horn via output relay
Up to 2 alarm signals via relays
Up to 2 limit values freely adjustable
Alarm outputs: latch circuit, hysteresis or impulse
Display of current gas concentration
Test function for output relays
Line-break and short-circuit monitoring of gas measuring system wiring
1 reset button for alarm horn and alarms
LEDs for RUN mode, fault indication, alarm horn and the alarms of the 2 (4) input channels.
1 fault indication via output relay

The limit monitor complies with the EMC directive 89/336/EWG and 92/31/EWG as well as with the low-voltage directive 73/23/EWG and 93/68/EWG.

TECHNICAL DATA GWZ-S2 AND -S4

GENERAL		
Power supply		Screw terminals
	Voltage	230 V AC
Nominal wattage	Without measuring systems	about 3 W
Ambient temperature	-10° C to +50° C	
Air pressure	900 hPa to 1.100 hPa	
Permissible humidity	15-95% relative humidity	
Housing	Plastic	Gray, wall mounting
Type of protection housing	IP 54	
Weight of housing	about 1.500 g	
Size of housing	about W166 x H105 x D160 mm	
OPTICAL DISPLAY		
Yellow LED Error	Fault message	
Green LED Power	Operation	
Red LED Alarm Horn	Acoustic alarm	
Red LEDs A, B, C, D	Alarm of Channel A, B, C, D	Channel C, D GWZ-S4 only
OPERATING ELEMENTS		
Pushbuttons F1 and F2	Function keys	
Pushbutton Reset	Reset Alarm Horn	Reset Alarm
ALPHANUMERIC DISPLAY		
Measuring level	Concentration, status, fault, limit value exceeded	
Parameter level	Setting the limit values, alarm groups	
Service level	Checking the limit values, functions of the relays	

Cryo Oxygen sensor



PRODUCT SPECIFICATIONS

SPECIFICATION	DESCRIPTION
Power Supply	24VAC/DC ± 10%, 100mA max, 3W max
Analogue Output	4-20mA By default the analogue output range matches the output range of the chosen sensor it represents
Communications	RS485 (Modbus RTU) RS485 option has manual address selector on the main PCB. 4way DIP switches allow the address to be changed from 1-15.
Cable Requirements	PG11 cable gland accepts 4 to 10mm diameter cable
IP Rating	IP65
Temperature Rating	-30OC to + 60OC
Humidity Rating	0-95% non condensing
Dimensions	148 x 120 x 60 mm
Weight	<400g
Detection Method	Diffusion
O2 Sensor	Sensor Technology: Fluorescence-based Optical Range: 0-25% Response time: <30 secs Accuracy: ± 0.5% O2 after calibration in application at normal operating temperature.
Certified Standards	EN50270: 2006 - Electromagnetic compatibility – Electrical apparatus for detection and measurement of combustible gases, toxic gases or oxygen EN61010-1: 2010 – Safety requirements for electrical equipment for measurement, control and laboratory use.

