

AnaCONT

КОМПАКТНЫЕ ПРЕОБРАЗОВАТЕЛИ РАСТВОРЕННОГО КИСЛОРОДА



всегда на высшем уровне

The dissolved oxygen (DO) measurement gives the quantity of dissolved oxygen in a liquid, in ppm or mg/l values. The sensor with an oxygen-permeable membrane is submerged in the liquid and it provides an electronic signal proportional to the oxygen concentration.

The electronics calculates and transmits the DO value normalized to +25 °C on the basis of the output current of the DO sensor and the potential of the temperature sensor immersed in the medium.

FEATURES

- Compact DO transmitter
- Remote mount versions up to 10 m
- Measuring range: 0...20 ppm
- Replaceable probe
- Temperature compensation
- Graphic display
- 4...20 mA, HART®, relay output
- Wide range of accessories
- IP67
- Ex variant
- 5 years warranty

APPLICATIONS

- Checking of water quality
- Wastewater treatment
- Pharmaceutical industry
- Food and beverage industry
- Effluent treatment
- Checking of aeration in potable water
- Pools

CERTIFICATES

ATEX (Ex ia G)



LED-100



SAT-504 HART® modem



SAP-300 graphic display



DO measurement sensor LAD-40□-0

PROBES

		DO sensors		
		LAD-402-0	LAD-401-0	
DO sensor	Application area	Fish- and crawfish farms, water conditioning of large aquariums. Controlling of oxygen concentration in water plants, determination of biological condition in surface water. Interchangeable with HACH-LANGE 085g0023 sensor.	Potable water production, river monitoring, water treatment sites, controlling of dissolved oxygen level in wastewater plants, determination of biological condition in surface water. Interchangeable with HACH-LANGE 085g0022 sensor.	
	DO range	020 ppm	010 ppm	
	Process temperature	Up to +50 °C		
	Process pressure	Maximum 1 bar		
	Flow speed	Minimum 0.05 m/s		
	Material / thickness of membrane	PTFE / 125 μm	PTFE / 50 μm	



TECHNICAL DATA

		AnaCONT L□D – DO transmitter		
Measurement data	Range	020 ppm / 010 ppm		
	Reserve	20%		
	Resolution	0.01 ppm (internal resolution: 0.005 ppm)		
	Linearity	±0.05 ppm		
	Accuracy (1)	0.5% of the measured value ± 1 digit $\pm 0.01\%$ / °C		
	Measuring cycle	300 msec, on display: 1 s		
Temperature measuring (semiconductive sensor)		Range: –50+130 °C, Accuracy: ±0.5 °C, Resolution: 0.1 °C		
Liquid potential (complementary) electrode		Housing of the temperature sensor: stainless steel (1.4571), connection: SN6		
Electrode input		DO sensor input: galvanically isolated current input, 0.725 V polarization voltage, connection: SN6		
Supply voltage / Power consumption		1236 V DC / 48720 mW, galvanically isolated, transient overvoltage protection		
	Analog	420 mA, (3.920.5 mA), R_{lmax} = 1200 Ω galvanically isolated, transient overvoltage protection		
Output	Relay	SPDT: 30 V DC, 1 A DC		
Oulbui	Display	LCD graphic display (SAP-300), units of measure and bar graph		
	Digital communication	HART®		
Process temperature (pressure dependent) (1)		PP probe housing: -10+90 °C, PVDF probe housing: -15+100 °C		
Pressure (absolute) (1)		Max. 0.1 MPa (1 bar) at +25 °C		
Ambient temperature		Aluminum housing: –30+70 °C, Plastic housing: –25+70 °C, with display: –20+70 °C		
Seal		PP probe housing: EPDM, all other probe housing: FPM (Viton®)		
Ingress protection		Probe housing: IP68, Electronic housing: IP67		
Housing material		Plastic (PBT) or painted aluminum		
Material of probe housing		Polypropylene (PP), PVDF		
Electrical connection		2× M20×1.5 plastic cable glands for cable: Ø6Ø12 mm, or 2× M20×1.5 metal cable glands for cable: Ø7Ø13 mm wire cross section: 0.51.5 mm² (shielded cable is recommended), + 2× internally threaded ½" NPT connection for protective pipes		
Electrical protection		Class III electric shock protection		

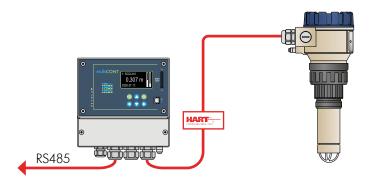
⁽¹⁾ Depending on probe

Ex INFORMATION

Pro	tection	Intrinsic safety	
Ex marking		© IIIG Ex ia IIB T6 Ga	
Intrinsic safety data		$C_i \le 15 \text{ nF, } L_i \le 200 \mu\text{H, } U_i \le 30 \text{ V, } I_i \le 140 \text{ mA, } P_i \le 1 \text{ W}$	Ex transmitters must use an Ex ia power supply
Process temperature		0+50 °C	
Ambient temperature		Aluminum housing: -30+70 °C, Plastic housing: -20+70 °C, With display: -20+70 °C	

AnaCONT IN SYSTEM WITH MultiCONT

The **MultiCONT** can handle digital data from up to 15 HART® transmitters measuring different values (e.g., DO temperature, level, pressure). The digital (HART®) information is processed, displayed, and – if necessary – it can be transmitted via RS485 to a PC. The transmitter can also be programmed remotely. Data can be visualized on a computer using the **NIVISION** process visualization software.





MOUNTING VERSIONS

The construction of the sensors of the compact and integrated versions are identical, so all accessories can be used with both types.

Using the accessories designed specifically for the AnaCONT family helps optimize the installation of the transmitters making the installation process easier.

By using extension pipes and extension cables, the remote-mount versions allow mounting the electronics and the sensor at any distance from each other.

COMPACT TRANSMITTER Compact transmitter +extension pipe 160 + sliding sleeve with flange 120 LAR-1 As per order code _DN80 LAA-10 **Compact transmitter** +extension pipe 120 LAR-1 Ø63 Compact transmitter +extension pipe 52 +console mounting bracket 120 108 LAR-1 order code As per LAA-10K 25 1 ½" 120

DETACHED COMPACT TRANSMITTER

