GREISINGER O Member of GHM GROUP G 1690

Product Information G 1690 O₂-Analyser / Oxygen Measuring Instrument





Accurately measure oxygen concentration in air and gas mixtures!

- modern and functional- in pocket size
- waterproof IP65 and IP67
- comfortable air adjustment at push of button
- 3-line display with backlight / overhead display at the push of a button
- long-life and maintenance-free sensorsport diver version "T":
 - with MOD calculation for Nitrox
- robust, long battery life
- Made in Germany

Characterisitcs

The G 1690 deliberately focuses on the essential functions of measurement technology for reliable measurement of oxygen concentration in gases. Essential for the reliability and longevity are the sensors used, GOEL 370 and GOEL 381, especially suitable for wet environments.

The instruments also impress with their ergonomics, water protection and display illumination.

Thus, the G 1690 is an inexpensive and precise submersible gas meter, but is also an inexpensive but at the same time high-quality entry for many other oxygen measurements - for example, for protective gas measurements.

Note: The device serves as an additional control. It does not replace a measuring device with approval or safe methods for creating gas mixtures!

Technical Data

Measuring ranges	Oxygen concentration: G 1690-35 / G 1690T-35 : 0.0 100.0 Vol% O ₂ , recommended for 0.2 36 % Vol% O ₂ (reduced precision beyond)	
	Standard for gas at sport diving, protection gases at raised O ₂ levels and may more. G 1690-MAX / G 1690T-MAX : 0.0100.0 Vol% O ₂ (also for values <=0.2 and above 36 Vol% O ₂) e.g. for inert gases with lowest O ₂ content or high- percentage oxygen mixtures with low CO ₂ content Resolution 0.1 Vol% O ₂	
	G 1690T-XXX: Sport diver variant: MOD-calculation for Nitrox up to 36% 0+169 ft. MOD Resolution 1 ft. 0+60 m MOD Resolution 1 m	
Sensor: Connections:	sensor cable fixed to device, screw-in thread M16x1 sensor head	
Max. pressure:	±0.25 bar difference at sensor membrane 0.6 1.75 bar absolute	
Response time:	90% in < 10 sec., depending on temperature	
	usted instrument at nominal temperature: G 1690 35 : Sensor GOEL 370 < 2 Vol% O_2 : +/-0.2% < 35 Vol% O_2 : +/- 0.5%, above not specified Sensor life time at 20.9 Vol% O_2 ca 2 years	
Variants	G 1690 MAX : Sensor GOEL 381 < 2 Vol% O ₂ : +/-0.1% < 35 Vol% O ₂ : +/- 0.5% < 100 Vol% O ₂ : +/- 1.5% Sensor life time at 20.9 Vol%O ₂ >3 years	
Sensor cable: Measuring rate Nominal temperati	0.95 m, audio plug, elastic sensor protector ca. 1 per second	
Working ambient	0+45 °C; recommended 5+30 °C: optimized temperature compensation in this range 0+95 % r.H. (short time condensing)	
Storage temp.	-20+50 °C	
Display	3-line with battery status indicator, Backlight, protected by shatterproof screen, overhead display at the push of a button	
Operation	4 long-life keys, easy to operate	
Power supply	2*AA batteries (included), operating time > 3000 h 4 level battery status indicator, Low battery indication: "BAT LO". Auto power off function, configurable	
Housing Protection rate Dimensions Weight	break proof ABS, screw locked bat. compartment IP65 / IP67, Sensor IP54 108 x 54 x 28 mm (H x W x D) excl. sensor ca. 175 g incl. sensor	



Hand free for instrument with universal valve adapter GZ 5826 (option or within set "-DIVE")

Members of GHM GROUP: GREISINGER | HONSBERG | Martens | IMTRON | Seltacer | VAL.CO pi_gr_G1690_e V0.00-05.docx 1

Product Information

Scope of supply

- Handheld with sensor (except -GL)
- Flow-Diverter ESA 369, T-piece ZOT 369
- 2xAA Batteries
- Manual
- Additional accessories depending on Set-Option

Flowdiverter ESA 369



T-Piece ZOT 369 for connection to Ø 22mm hoses

Ordering Code

· · · · · · · · · · · · · · · · · · ·					
G	1690	1 2 3 4.			
1.	1. Version				
		Device with fix mounted cable and sensor protection sleeve, exchangeable sensor			
	т	Device with fix mounted cable and sensor protection sleeve, exchangeable sensor, MOD-calc. NITROX			
2.	Sensor				
	-35	GOEL 370: 0 100 Vol% O ₂ , recommended 0.2 35 Vol% O ₂ (beyond reduced precision)			
	-MAX	GOEL 381: 0 100 Vol% O ₂ (also for values <=0.2 and >35 % Vol% O ₂)			
	-GL	Without sensor			
3.					
	-00	Instrument, battery, manual, ESA 369 + ZOT 369	Not -GL		
	-SET	Instrument, battery, manual, ESA 369 + ZOT 369, suitcase GKK 252	Not -GL		
	-SET -DIVE	-	Not -GL Not -GL		
	-	369 + ZOT 369, suitcase GKK 252 Instrument, battery, manual, suitcase GKK 252, scuba tank adapter ESA 369 + ZOT 369 + GZ			
	-DIVE	369 + ZOT 369, suitcase GKK 252 Instrument, battery, manual, suitcase GKK 252, scuba tank adapter ESA 369 + ZOT 369 + GZ 5826	Not -GL		
4.	-DIVE -00 -SET	369 + ZOT 369, suitcase GKK 252 Instrument, battery, manual, suitcase GKK 252, scuba tank adapter ESA 369 + ZOT 369 + GZ 5826 Instrument, battery, manual Instrument, battery, manual,	Not -GL Only -GL		
4.	-DIVE -00 -SET	369 + ZOT 369, suitcase GKK 252 Instrument, battery, manual, suitcase GKK 252, scuba tank adapter ESA 369 + ZOT 369 + GZ 5826 Instrument, battery, manual Instrument, battery, manual, suitcase GKK 252	Not -GL Only -GL		

Accessories

Standard spare parts:

• Replacement sensor GOEL 370 Art.no. 601490

FISING

Member of GHM GROUP

G 1690



- Replacement sensor GOEL 381 Art.no. 610035
- Spare batteries 2x AA
- GB-AA-2 Art.no. 479249
 Tube adapter / flowdiverter ESA 369 Art.no. 603058
- T-piece to plug on ESA 369 ZOT 369 Art.no. 603094

Generic gas measurement:

- Flow adapter, M16x1 inside thread with 6/4 mm hose connection GZ-11 Art.no. 603144
 - Gas sampling pump GS 150 Art.no. 610005

Accessories for scuba diving

Combi adapter for compressed air (G5/8) and Nitrox DIN M26 GZ 5826 Art.no. 482473





GZ 5826 on ZOT 369 T-piece

Additional accessories:

- Protection bag, leather, belt-clip: ST-G1000, Art.no. 611373
- Metal-clip self-adhesive for G1000 series: GCLIP1000, Art.no. 475820
- G 1000 table base and wall suspension: G1000_BASE Art.no. 481885
- Case with punched lining for universal application GKK 252 Art.no.601056



GKK 252 with G 1690

Corresponds to ordering code "-SET

Members of GHM GROUP: GREISINGER | HONSBERG | Martens | IMTRON | Seltacer | VAL.CO pi_gr_G1690_e V0.00-05.docx 2

Product Information Standard Order Articles

.

- O₂-Analyser, CO₂-proof, recommended 0.2..35 % G1690-35 Art.no. 482286
 - O₂-Analyser, 0..100 % G1690-MAX Art.no. 482459
- O₂-Analyser, MOD-function, recommended 0.2..35 %
 G1690T-35 Art.no. 482716
- O₂-Analyser, MOD-function, 0..100 %, suitcase GKK 252, scuba tank adapter GZ 5826, sensor in can G1690T-MAX-DIVE-CAN Art.no. 482448

Members of GHM GROUP: GREISINGER | HONSBERG | Martens | IMTRON | Deltaction | VAL.CO pi_gr_G1690_e V0.00-05.docx 3

