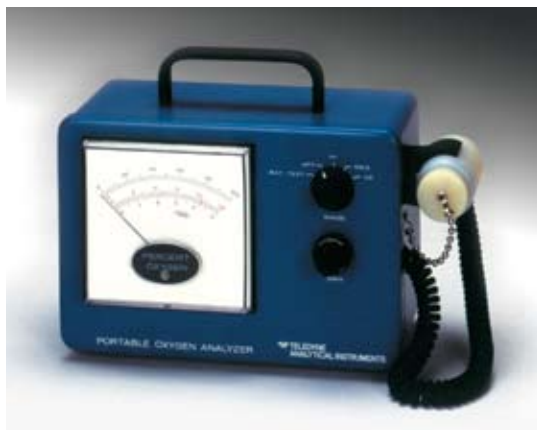


TELEDYNE ANALYTICAL INSTRUMENTS



Model 320BRC



Model 320P

SERIES 320 *Portable Oxygen Analyzers*

Teledyne's rugged 320 Series of Portable Oxygen Analyzers are designed for use in a wide variety of applications from diving to fine tuning boilers.

Lightweight (less than 6 lbs. / 2.7 kg) and easy to use, these units utilize Teledyne's own Micro-fuel Cell sensor for quick and accurate analysis of oxygen. This maintenance-free, sealed, electrochemical cell is specific to oxygen, insensitive to flow rate, and has a 90% response in less than 7 seconds. At the end of its life, the cell is discarded and replaced like a flashlight battery. A unique Cell-Saver cap preserves the sensor from exposure to air, thereby prolonging its operational life.

The rugged 320 Series is powered with rechargeable NiCad batteries. The integral NiCad batteries have an expected life of 5 years (minimum). Fully charged, the batteries provide over one month of continuous operation (320BRC series), and recharging is accomplished overnight (14 hours). The built-in charger requires a 115 VAC, 50 / 60 Hz electrical source (100 VAC or 220 VAC, 50 / 60 Hz optional).

Teledyne's portable flue gas oxygen analyzers are specifically designed to improve efficiency, lower fuel costs, and reduce explosive hazards in such applications as power plants, refineries, chemical / petrochemical plants, and steel making.

When used to monitor boilers, fireboxes, and process streams, these analyzers can safeguard combustion processes from insufficient or excessive oxygen conditions.

The 320P/D also offers a digital, liquid crystal display (LCD) with a readability / resolution of $\pm 0.1\%$ oxygen. Linear range is 0-100% oxygen.

The Series 320 requires no warm up, making it ideal for quick, spot checking analysis. Its accuracy is assured by a cost-effective calibration method using atmospheric air rather than zero or span gases.

FEATURES

- Fast, accurate response
- Maintenance free sensor
- Rugged and completely portable
- Rechargeable NiCad batteries
- Integral recharge circuit
- Pushbutton activated built-in pump (320P Series)
- Sample filter (320P Series)
- Digital meter (320BRCD & 320P/D)
- Air calibration; no zero or span gases

The Model 320BRC meets the United States Pharmacopoeia criteria as a reference method for detecting the amount of oxygen in medical air supplies.

OPTIONS

- 100 VAC or 220 VAC, 50 / 60 Hz recharge circuit
- Special ranges
- Carrying case: aluminum / steel clad, foam interior (P/N C-416)
- Flow-thru adapter (P/N 9913)
- mVDC output signal

Built for Reliability and Performance

SERIES 320 PORTABLE OXYGEN ANALYZERS

SPECIFICATIONS

	320BRC	320P	320BRCD & 320P/D
Ranges	0-5, 0-10, and 0-100% oxygen (switch selectable) - optional ranges available		0 to 100% oxygen
Sensitivity	0.5% of full scale		
Accuracy	±2% of full scale at constant temperature; ±5% of reading throughout the operating temperature range (once temperature equilibrium is achieved)		±1% of oxygen reading at constant temperature; ±3% of oxygen over temperature range
Operating temp range	32 to 122°F (0 to 50°C)		
Response time	90% < 7 seconds with B-1 cell (6 month warranty) 90% < 15 seconds with B-3 cell (12 month warranty) 90% < 30 seconds with C-3 cell (18 month warranty)		
Output	0-100 mVDC range		0-100 mVDC for 0-100% oxygen
Oxygen sensor	Micro-fuel Cell, class B-1 (standard) Class C-3, B-3, A-5 cells (optional). Sensor selection is determined by customer needs and sample gas composition.		
Power requirements	Integral rechargeable NiCad batteries		
Sample pump	Not included	Included	Included only in 320PD
Display	Analog meter	Analog meter	Integral liquid crystal display (LCD), 3-1/2 digits

PUMP SPECIFICATIONS

Type:	Diaphragm
Intended duty:	Intermittent
Power:	2.5 VDC supplied by NiCad batteries
Maximum vacuum:	48 inch water column

TELEDYNE ANALYTICAL INSTRUMENTS

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Warranty

Instrument is warranted for 1 year against defects in material or workmanship

NOTE: Specifications and features will vary with application. The above are established and validated during design, but are not to be construed as test criteria for every product. All specifications and features are subject to change without notice.

