



Revision V1.00

FCX-TR2

[PRELIMINARY DATASHEET]

Easy to use & highly integrable
Long lifetime
Maintenance-free operation



KEY FEATURES

- Highly sensitive to oxygen
- Measurement range: 0-1000ppm up to 95 vol.-%O₂
- Easy connectivity and integration
- Digital or analog output interface
- 12-24VDC power supply
- Diffusion and/or forced flow variants
- Fast response & recovery times
- Low maintenance and long lifetime



APPLICATION AREAS

- Industrial Safety & Process Control
- Energy Systems
- Additive Manufacturing
- O₂ Concentrators & Generators
- N₂ Generators
- Food storage and Packaging
- CO₂ incubators
- Server rooms and trace gas applications



MEASUREMENT SPECIFICATIONS

Detection Range	0 – 1000ppm 0.1 – 25 vol.-% O ₂ 0.1 – 95 vol.-% O ₂
Accuracy [at 25°C]	FCX-TR2-1000: ±50ppm O ₂ FCX-TR2-0025: ±0,5% O ₂ FCX-TR2-0095: ±0,5% O ₂ FS
Repeatability	Standard ±1% FS
Stability	±0.5% FS/year
Response Time t_{90}	within 30s
Warm-up Time	about 3 min ¹ before the measurement

TECHNICAL SPECIFICATIONS

Sensing Principle	Zirconia oxide – limiting current (Amperometric)
Temperature Range	-10°C to +50°C
Humidity Range	0 to 85% r.h. [non-condensing]
Storage Temperature	-40°C to +120°C
External Dimensions	<i>to be added</i>
Weight	<i>to be added</i>
Supply Voltage	12 to 24VDC
Power Consumption	Less than 2W
Output Signal	Analog: 4 – 20mA Digital: RS-485, Modbus RTU
Lifetime	FCX-TR2-1000: ~60.000 hrs FCX-TR2-0025: ~90.000 hrs FCX-TR2-0095: ~90.000 hrs
Electrical Interface	Industry standard M12
Mechanical Interface	G3/4" external thread, 36mm wrench size (SW36)
Housing Material	Anodized aluminum

ORDERING INSTRUCTIONS

Part no.	1620215201	1620215202	1620215203
Model	FCX-TR2-1000	FCX-TR2-0025	FCX-TR2-0095

LIABILITY / DISCLAIMER



CAUTION! All specifications – technical included – are subject to change without notice.



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Typical values related to 1.013 bar, Ta = 25 °C, flow = 0.7 l/min for dry (non-condensing) and clean sample gas. Stated values exclude calibration gas tolerance.

We are here for you. Addresses and Contacts.

Headquarter Switzerland:

Angst+Pfister Sensors and Power AG
Thurgauerstrasse 66
CH-8050 Zurich
Phone +41 44 877 35 00
sensorsandpower@angst-pfister.com

Office Germany:

Angst+Pfister Sensors and Power Deutschland GmbH
Edisonstraße 16
D-85716 Unterschleißheim
Phone +49 89 374 288 87 00
sensorsandpower.de@angst-pfister.com

Office North America:

Angst+Pfister North America Inc.
10391 Brecksville Rd.
US-Brecksville, OH 44141
Phone +1 440 375-5212
info.apus@angst-pfister.com

Scan here and get an overview of personal contacts!



<https://sensorsandpower.angst-pfister.com/en/>
