

Symaro – portfolio overview

Answers for infrastructure and cities.



Symaro – energy-efficient, innovative measurement that pays off over the long term

Saving energy thanks to highly accurate measurements – Symaro™ sensors record and transmit readings extremely quickly and accurately, providing an optimal basis for precise and therefore energy- and cost-efficient control of the entire HVAC plant.

With innovations such as integrated self-monitoring and highly versatile multisensors for different applications, Symaro sensors are a secure investment in the future. And thanks to an installation concept that has remained unchanged for decades, they can be quickly installed and put into operation – so your investment pays off right from the start.

Symaro – simply a better way to measure

- Perceptible energy and cost savings thanks to fast, highprecision measurement and efficient measuring techniques
- Innovative sensor technology self-monitoring, service mode, integrated installation concept and functional design
- High level of comfort provided by demand-controlled ventilation

- Symaro multisensors for multiple parameters and increasing comfort thanks to user-friendly interface and reduced installation and cabling effort
- Guaranteed quality the result of many years of experience, in-depth applications expertise and systematic sensor tests
- Comprehensive support from experts worldwide

Symaro temperature – reliable and precise measurement at any place

	100000		
Model	Room	Duct	Immersion
Туре	QAA/D	QAM	QAE
Range	−1550 °C	−5080 °C	−30130 °C
Supply	AC 24 V / DC 13.535 V		
Output	DC 010 V / 420 mA		
Output	LG-Ni1000 / Pt100 / Pt1000 / NTC 10k		
Protection	IP30	IP42/54	IP42/54

- Wide choice of products covering all usual measurement ranges and output signals
- Energy-efficient heat requirements and high room comfort the result of balanced measurement weighting, short reaction times and high measuring precision
- Innovative and simple installation thanks to a construction and housing design that comply to all measuring technology and installation requirements





Symaro humidity – highly stable measurement even under difficult conditions

	1000	155 BS #		COST TO COST
Model		Ro	om	
T	Standard	High quality	Hygrostat	Dew point
Туре	QFA20/20D	QFA31/31D	QFA10	QXA26
Version	r.h.; r.h./T		r.	h.
Range	095% r.h. / −1550 °C	0100% r.h. / -4070 °C	3090% r.h.	595% r.h.
Supply	AC 24 V / DC 13.535 V		-	AC 230 V AC / DC 24 V
Output	DC 010 V / 420 mA		Re	lay
Protection	IP30	IP65	IP20	IP54

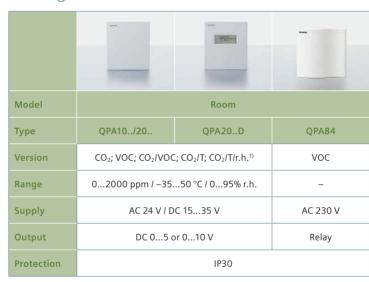
- Energy efficiency with long life cycle thanks to outstanding long-term stability with a high level of accuracy, freedom from maintenance and precision
- Reliable operation even in critical applications
- High degree of reliability thanks to innovative, FDA- and GMP-certified precision measuring sensors



 Best quality, accuracy and reproducibility thanks to high-precision calibration laboratory



Symaro air quality – less energy, more comfort thanks to long-term stable sensors



VOC: Volatile Organic Compound (mixed gas)

- Wide selection of multisensors for room and duct applications
- Cost efficiency with guaranteed measurement accuracy and longterm stability – through precise infrared measurement and self calibration
- High application and installation comfort through patented technology
- Energy savings and maximum room comfort thanks to demandcontrolled ventilation



¹⁾ also models with passive temperature output available



Symaro pressure – precise measurement of differential and relative pressure

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Medium		Air	
Model	Differential pressure		
Туре	QBM81	QBM3020/D	QBM2030
Range	201000 Pa	–502500 Pa	–1003000 Pa
Supply	– AC 24 V / DC 13.533 V		
Output	Relay	DC 010 V	
Temperature	070 °C		
Protection	IP54		IP42





Medium			Liquids and
Model	Relative pressure		
Туре	QBE2002	QBE2102	QBE61.3
Range	060 bar	020 bar	010 bar
Supply	AC 24 V / DC 1833 V	DC 1133 V	
Output	DC 010 V	DC 420 mA	
Temperature	−4080 °C		−1580 °C
Protection	IP65		IP54/65

- Optimum pressure sensor for every measuring and application area
- High measurement accuracy and best quality thanks to optimized measuring cells over the entire measurement range
- Great, long-term stability thanks to innovative and patented measuring elements

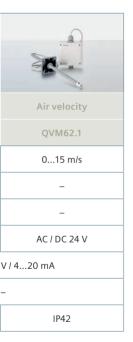




Symaro flow – flexible and efficient measurement of flow

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Model	Flow switch				
Туре	QVE1900	QVE1901	QVE1902	QVE2	QVE3
Range	-		1.8150 l/min		
Version	-		Plastic	Red brass	
Pipes	DN32200 DN20200 D		N10 / 15 / 20 /	25	
Supply	-		DC 18	33 V	
Output	Relay			DC 010	
Contact rating	15 A / 1 A / AC 230 V / AC 24250 V DC 48 V / 26 VA / 20 W				
Protection			IP65		

- Suited for all types of flow applications for versatile use in liquids and air
- More flexibility thanks to DC 0...10 V, 4...20 mA or switching contact outputs





Symaro – certified sensors for the pharmaceutical industry

	(ISSE)		
Model	Humidity room	Humidity duct	
Туре	QFA41/41D	QFM41	
Version	r.h.; r.h./T		
Range	0100% r.h. / −4070 °C		
Supply	AC 24 V / DC 13.535 V		
Output	DC 010 V / 420 mA		
Protection	IP65		

- Meet the stringent requirements of the FDA
- Bear product-specific serial number and are supplied with calibration certificate
- Straightforward replacement of the measuring tip
- No costly use of replacement sensors
- Any small changes of the sensor's electronics can be straightforwardly detected with the loop test
- Proven and reliable performance of Symaro sensors



 Extensive calibration services ensured by Siemens

AC 24 V / DC 13.5...33 V

DC 0...10 V / 4...20 mA



Solar – best quality even for special applications

Model	Solar
Туре	QLS60
Range	01000 W/m²
Supply	AC 24 V / DC 1830 V
Output	DC 010 V / 420 mA
Protection	IP65

 Supports energy-efficient control – by measuring solar irradiation



Notes

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The information in this document contains general descriptions of technical options available, which do not always have to be present in individual cases. The required features should therefore be specified in each individual case at the time of closing the contract.

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