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Symaro – innovative sensors, measurable quality

A structured range of sensors for all typical HVAC measurements and applications

siemens.com/symaro



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

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

With innovations such as integrated self-monitoring and highly versatile multi-sensors 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

A range of sensors to meet every need

Whether for measuring temperature, pressure, humidity, air quality or flow in rooms, ducts or outside areas, Symaro offers a transparent, clearly structured range of sensors for typical HVAC measurements and applications. The range also includes multisensors that measure mixed gases, as well as sensors for special areas, for example in the pharmaceutical industry. Digital correction algorithms guarantee clean, clear measurement signals. Tested applications ensure full compatibility with all HVAC controllers from Siemens. In addition, the connection to standard commercial thirdparty systems is always an option thanks to standardized output signals.

High room comfort and user-friendly operation

Symaro provides a solid foundation for optimum comfort when it comes to room climate. The sensors allow energy-efficient, demand-controlled ventilation for an optimum room atmosphere. They automatically compensate for changes in building occupancy, building usage or plant characteristics. Multi-sensors with a value display offer a direct insight to the measured temperature, humidity and air quality readings. And the temperature display can be switched from °C to °F.

Measurable quality based on many years of experience

Symaro reflects Siemens' more than 60 years of experience in developing and producing sensors: Symaro sensors are highly reliable and designed for simple, standardized, cost-saving installation with low cabling effort and fast start-up. They have also been tested in the in-house HVAC laboratory. Symaro complies with all international standards such as CE, UL, C-Tick and RoHS.

Comprehensive support in every respect

With Symaro, you are assured of Siemens' comprehensive support, whether it's intensive training courses, practical tools, extensive documentation or expert assistance. Worldwide – if you want.

Highlights

- Perceptible energy savings thanks to fast, high-precision measurement and efficient measuring techniques
- Innovative sensor technology

 with self-monitoring, service mode, integrated installation concept
- High level of room comfort – provided by demandcontrolled ventilation
- Reduced installation and cabling effort thanks to multi-sensors
- Guaranteed quality the result of many years of experience, in-depth applications expertise and systematic sensor tests

		Temp	erature		Humidity			quality		Pressu	re	Flow			Solar
		Sensors	Switching sensors ¹⁾	Sensors	Switching sensors	Certified sensors	Sensors	Switching sensors	Sensors	Switching sensors	Certified sensors	Flow sensors	Flow switches	Velocity sensors	Solar sensors
	Room														
Air	Duct														
	Outside														
	Immersion														
Water	Strap-on														
	Cable														



¹⁾ see separate overview of thermostats



Symaro temperature – reliable and precise measurement at any place

Flexible sensors for temperature measurement

Symaro offers temperature sensors with all important active and passive output signals. The active sensors can be quickly adapted to the situation at hand using a number of different, easily adjustable measurement ranges.

Exact measuring results in every application

The best possible comfort even during dynamic processes is ensured by the optimum weighting of room and wall temperatures.

- In addition to outside temperature, to keep heat requirements economical, the outside sensors measure wind, wall temperature and solar radiation.
- Strap-on, immersion and cable sensors optimize control thanks to their sophisticated design and short reaction times.

 The air duct sensors deliver precise results with their mean value measurement, regardless of temperature stratification or flow conditions. The duct sensors can therefore be flexibly positioned.

Innovative and simple installation

All temperature sensors can be quickly, securely and easily mounted – saving time and money during installation.

- The mounting plate allows the room sensors to be wired in advance.
 Then, after all plastering and painting work is finished, the sensor is snapped on.
- When it comes to preinstalled protection pipes, immersion sensors are simply snapped in place.
- Strap-on sensors can be fixed fast and securely, regardless of the pipe diameter, using the supplied clamping strip.

Highlights

- 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 housing design and construction

						1225 × 1		Ĩ		- -)		4	5	3
м	odel	Roc	om ser	nsor	Roo	m sen	sor	Duct sensor	Immersion sensor	Outside se	nsor Outs	side sensor	Strap-on se	ensor Cable	sensor
ту	pe		QAA		Ç)AA[)	QAM	QAE	QAC3	. (QAC2	QAD	Q	AP
	Туре			Out	put			Range	Category	Sup	ply	Ler	igth	Protection	MA ¹⁾
		LG-Ni1000	Pt100	Pt1000	NTC 10k	DC 010 V	DC 420 mA	Temperature °C	High quality	AC 24 V	DC 13.535 V	Sensor mm	Cable mm		
	QAA2010 QAA2012			_				0+50 0+50						IP30 IP30	
_	QAA2012 QAA2030			-				0+50						IP30	
noc	QAA2061							0+50						IP30	
ĕ	QAA2061D							0+50						IP30	
	QAA2071							0+50						IP30	
	QAA24							0+50						IP30	
	QAM2110.040			-				-50+80				400 400		IP54 IP42	
	QAM2112.040 QAM2112.200							-50+80 -50+80				2000		IP42 IP42	
	QAM2120.040			_				-50+80				400		IP42	
uct	QAM2120.200							-50+80				2000		IP42	
	QAM2120.600							-50+80				6000		IP42	
	QAM2130.040							-40+80				400		IP42	
	QAM2161.040						-	-50+50				400		IP54	
	QAM2171.040 QAE2111.010							-50+50 -30+130				400 100		IP54 IP42	
	QAE2111.015							-30+130				150		IP42	
	QAE2112.010							-30+130				100		IP42	
	QAE2112.015							-30+130				150		IP42	
	QAE2120.010							-30+130				100		IP42	
	QAE2120.015							-30+130				150		IP42	
	QAE2121.010 QAE2121.015							-30+130 -30+130				100 150		IP42 IP42	
	QAE2130.010	-						-30+125				100		IP42	
u	QAE2130.015							-30+125				150		IP42	
ersi	QAE2164.010							-10+120				100		IP54	
, mu	QAE2164.015							-10+120				150		IP54	
-	QAE2174.010						1	-10+120			10.0	100 150		IP54 IP54	
	QAE2174.015 QAE3010.010							-10+120 -50+200				100		IP54 IP65	
	QAE3010.016							-50+200				160		IP65	
	QAE3075.010							0+200			2)	100		IP65	
	QAE3075.016							0+200			2)	160		IP65	
	QAE26.90							-50+180				65		IP64	
	QAE26.91 QAE26.93							-50+180 -50+180				125 240	2000 2000	IP64 IP64	
	QAE26.95							-50+180				465	2000	IP64	
c	QAD2010							-30+130						IP42	
0-0	QAD2012							-30+130						IP42	
Stra	QAD2030							-30+125						IP42	
	QAD22		-					-30+130						IP42	
	QAC2010 QAC2012							-50+70 -50+70						IP54 IP54	
de	QAC2012 QAC2030							-40+70						IP54 IP54	
uts	QAC3161							-50+50						IP65	
0	QAC3171							-50+50						IP65	
	QAC22							-50+70						IP54	
	QAP1030.200							-25+95					2000	IP65	
	QAP2010.150							-30+130					1500 1500	IP65 IP65	
ble	QAP2012.150 QAP21.2							-30+130 -30+180					1500	IP65 IP67	
Ca	QAP21.3							-30+130					1500	IP65	
	QAP22							-25+95					2000	IP65	
	QAZ21.682/101							-50+80					2000	IP67	

¹⁾ including mounting accessories ²⁾ DC 7.5...30 V



Symaro humidity – highly stable measurement under all conditions

Robust sensors with a long life cycle

When it comes to energy-optimized control concepts, Symaro humidity sensors guarantee fault-free operation for years, even in critical applications. Thanks to the capacitive measurement element, they feature excellent longterm stability with high accuracy, freedom from maintenance and high precision. Microprocessor technology and a sophisticated algorithm for temperature compensation ensure very high accuracy not only in the comfort range, but over the entire measurement range. Additionally, the sensors are impervious to dust and most chemicals.

High-quality sensors for strictest standards

The portfolio also includes humidity sensors for applications with especially high requirements in the HVAC application area, for example in the pharmaceutical, food and paper industries as well as in clean room facilities. They even conform to the rigorous FDA and GMP guidelines.

Comfortable in handling

Combined temperature/humidity sensors offer exceptional flexibility and savings potential. They have three defined measurement ranges that are extremely simple to adjust with no need for additional tools.

Quality thanks to a high-precision calibration laboratory

The laboratory for measuring relative humidity is based on the Swiss Federal Office of Metrology's (METAS)¹⁾ standard for calibration laboratories. This serves as a reference system for the production of humidity sensors and multi-sensors. The result: documented process transparency and production reliability that translates into optimum quality, precision and reproducibility for Symaro humidity sensors.

Highlights

- Energy efficiency 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

¹⁾ equivalent internationally to LNE, PTB, NPL, NIST, BEV, etc.

					20%		-)			(3	
M	odel	Room	n sensor	Roo	m senso	r I	Duct sens	sor	Duct sensor	Room sensor	Roo	m sens	or C)utside :	sensor	Dew po senso	
Ту	ре	QF	A2	QI	FA2D		QFM2		QFM3D	QFA3	Q	FA3D			FA3 + QF3100		2
	Туре	Ver	sion			Outpu	t		Ra	nge	Cate	gory		Supply	r	Protection	MA 1)
		Humidity	Temperature	LG-Ni1000	DC 010 V	DC 420 mA	Relay contact	Display	Humidity % r.h.	Temperature ²⁾ °C	High quality	Certified	AC 24 V	DC 13.535 V	AC 230 V		
	QFA2000								095	-15+50						IP30	
	QFA2001								095	-15+50						IP30	
	QFA2020								095	-15+50						IP30	
	QFA2060								095	-15+50						IP30	
	QFA2060D								095	-15+50						IP30	
	QFA2071								095	-15+50						IP30	
_	QFA3100					_			0100							IP65	
Room	QFA3101								0100							IP65	
Ä	QFA3160								0100	-40+70						IP65	
	QFA3160D					_			0100	-40+70						IP65	
	QFA3171								0100	-40+70						IP65	
	QFA3171D								0100	-40+70						IP65	
	QFA4160							_	0100	-40+70						IP65	
	QFA4160D					_			0100	-40+70						IP65	
	QFA4171					121		-	0100	-40+70						IP65	
	QFA4171D				_				0100	-40+70			_			IP65	_
	QFM2100					11			095	-15+60						IP54	
	QFM2101		-	-	-				095	-15+60				100		IP54	
	QFM2120								095	-15+60						IP54	
	QFM2160				-				095	-15+60 -15+60						IP54 IP54	
	QFM2171 QFM3100		-						095 0100	-15+60						IP54 IP65	
Duct	QFM3100				-								-			IP65	
Б									0100	40 . 70						IP65	
	QFM3160 QFM3160D								0100 0100	-40+70 -40+70						IP65	
	QFM31700D							-	0100	-40+70						IP65	
	QFM3171D					10			0100	-40+70	10					IP65	
	QFM4160								0100	-40+70						IP65	
	QFM4171								0100	-40+70						IP65	
	QFA3100 + AQF3100								0100							IP65	
ide	QFA3101 + AQF3100								0100							IP65	
Outside	QFA3160 + AQF3100								0100	-40+70						IP65	
0	QFA3171 + AQF3100								0100	-40+70						IP65	
point	QXA2100	-					-		0100				-			IP40	-
Dew	QXA2101								0100				•			IP40	
ts	QFA1000								30902)							IP20	
sta	QFA1001								30902)							IP20	
lygrostats	QFM81.2								1595 ²⁾							IP30	
2	QFM81.21								1595 ²⁾							IP55	

¹⁾ including mounting accessories ²⁾ measurements adjustable



Symaro air quality – energy efficiency and more comfort

Unique product range with stable measurement method

The air quality sensors cover all requirements and are suitable for every type of building. The high-precision multi-sensors (CO_2/VOC^{1} , CO_2/T and $CO_2/T/r$.h.) are available for room and duct applications, and also with an attractive display.

Efficient in usage

Through infrared absorption measurement (NDIR), air quality sensors determine the CO₂ concentration. And because of an additionally integrated reference light source, they can also periodically recalibrate themselves. This ensures freedom from maintenance, long-term stability and maximum measuring accuracy. The sensors also deliver immediately, precisely measured values regardless of room occupation. Ultimately, you save substantial start-up, service and operating costs.

Comfortable and economical installation in the air duct

Fast, secure and cost-efficient installation - with no need for additional duct installation housing or sealing measures: The installation of air duct sensors is very easy thanks to their ergonomic, installation-friendly housing. Due to the infinitely variable immersion depth, the sensors can be optimally adapted to every installation situation. Additionally, because of the patented measurement system, alignment with the flow direction is no longer needed. Two totally separate chambers for measurement modules and connection terminals prevent air outside the duct from affecting the measurement accuracy.

Energy-saving room comfort

Optimum air quality with low energy consumption: Combined with systems from Siemens, controllers and variable speed drives, Symaro air quality sensors allow for optimized demand-controlled ventilation²⁾. Thus, 20 to 70 percent in energy and cost savings can be achieved.

Highlights

- Wide selection of multi-sensors for room and duct applications
- Cost efficiency with guaranteed measurement accuracy and long-term stability through precise infrared measurement and self calibration
- High application and installation comfort – through patented technology
- Energy savings and maximum room comfort thanks to demand-controlled ventilation

¹⁾ VOC: Volatile Organic Compound (mixed gas) ²⁾ www.siemens.com/symaro

M	odel		Room se	nsor		Room	2001		() Duc	t sensor		Duo	442nm	r		Room sensor	-
	/pe		PA10/			QPA2				11/21			M21D			QPA84	
_																	
	Туре		Ver	sion			Output			Ran	ge			Supply		Protection	MA ¹⁾
		CO ₂	VOC	Temperature	Humidity	DC 05 V or DC 010 V	Relay contact	Display	CO ₂ 02000 ppm	Temperature 0+50/ –35+35 °C	Temperature passive ²⁾	Humidity 095% r.h.	AC 24 V	DC 1535 V	AC 230 V		
	QPA1000															IP30	
	QPA2000															IP30	
	QPA2002												1.0			IP30	
	QPA2002D															IP30	
E	QPA2060															IP30	
Room	QPA2060D															IP30	
~	QPA2062															IP30	
	QPA2062D															IP30	
	QPA2080															IP30	
	QPA2080D															IP30	
	QPA84															IP30	
	QPM1100															IP54	
	QPM2100															IP54	
	QPM2102															IP54	
Duct	QPM2102D															IP54	
õ	`															IP54	
	QPM2160D															IP54	
	QPM2162															IP54	
	QPM2162D											1.0				IP54	
	QPM2180															IP54	1.0

¹⁾ including mounting accessories ²⁾ resistance included: LG-Ni1000, Pt100, Pt1000, NTC 10k





Symaro pressure – highly precise and robust pressure measurement

Symaro pressure sensors are designed to quickly and accurately measure the pressure in all fields of use.

Precise pressure sensors for all requirements

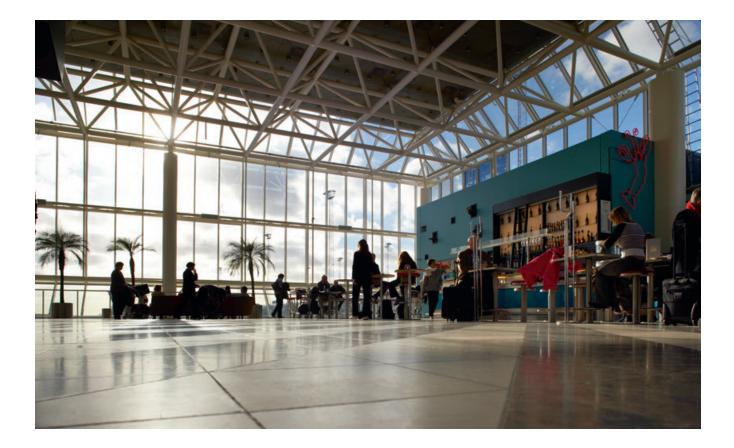
Symaro covers the entire range of requirements for pressure measurement. It comprises sensors for measuring very low to high pressures in all kinds of different media such as liquids, gases, water, refrigerants and air. Measurement cells matched precisely to the pressure range increase the measurement accuracy. This eliminates the need for temperature or pressure calibration.



Innovations for very good long-term stability

Thanks to patented membranes, the operating points of the Symaro pressure differential switch for air are stable over a long period. And because of its gold-coated contacts, even frequent operating cycles pose no problem.

The individually laser-adjusted pressure difference sensors for air and non-aggressive gases use the patented ceramic bending bar technology. That allows a highly accurate pressure measurement, which is stable over a long period, even with highly dynamic processes.



Ideal measurement even during intensive load change

The robust pressure sensors for liquids and gases are based on a stainless steel, piezo-resistive measuring system. They are ideally suited for the measurement of static and dynamic overpressures with intensive load change. Their fully encapsulated electronics design permanently protects them against the effects of temperature and humidity.

Precise within use – even in refrigeration areas

When it comes to Symaro pressure sensors for use in refrigeration areas, the stainless steel membrane is welded to the housing with no need for a seal. This means they can be used in conjunction with all refrigerants, even ammonia and carbon dioxide, as well as at high process temperatures and with aggressive media.

Highlights

- Optimum pressure sensors 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



	Model Differential pressure			Differential pressure						-	ŀ					
м	odel	Diff	erentia sens		e		ntial pro	essure	D	ifferential pressure sensor	Dif	ferential ı senso		Di	ifferential press switch	sure
м	edium		Ai	r			Air			Air		Air			Air	
ту	ре	QBN	13020/	QBM312	20 Q	BM3020	D / QB	M3120[D	QBM4		QBM20	30		QBM81	
															Protection MA ¹⁾	
	Туре	Ver	sion			Output				Range	Cate	gory	Sup	ply	MA ¹⁾	
		Relative	Differential	DC 010 V	DC 420 mA	Switchable root function	Relay contact	Display	Adjustable		High quality	Certified	AC 24 V	DC 1833 V		
	QBM3020-1U									-50+50 Pa					IP54	
	QBM3020-1									0100 Pa					IP54	
	QBM3020-3									0300 Pa					IP54	
	QBM3020-5									0500 Pa					IP54	
	QBM3020-10									01000 Pa					IP54	
	QBM3020-25									02500 Pa					IP54	
	QBM3020-1D									0100 Pa					IP54	
	QBM3020-3D									0300 Pa					IP54	
	QBM3020-5D									0500 Pa					IP54	
	QBM3020-10D									01000 Pa					IP54	
	QBM3020-25D									02500 Pa					IP54	
	QBM3120-1U									-50+50 Pa					IP54	
	QBM3120-1									0100 Pa					IP54	
	QBM3120-3									0300 Pa					IP54	
	QBM3120-5									0500 Pa					IP54	
	QBM3120-10									01000 Pa					IP54	
	QBM3120-25									02500 Pa					IP54	
	QBM3120-1D									0100 Pa					IP54	
	QBM3120-3D									0300 Pa					IP54	
	QBM3120-5D									0500 Pa					IP54	
_	QBM3120-10D									01000 Pa					IP54	
Air	QBM3120-25D									02500 Pa					IP54	
	QBM4000-1									0100 Pa					IP54	
	QBM4000-3									0300 Pa					IP54	
	QBM4000-10									01000 Pa					IP54	
	QBM4000-25									02500 Pa					IP54	
	QBM4100-1U									-50+50 Pa					IP54	
	QBM4100-1D									0100 Pa					IP54	
	QBM2030-1U		-	•						-50+50 Pa -100+100 Pa 0100 Pa				•	IP42	•
	QBM2030-5		-	•					÷	0200 Pa 0250 Pa 0500 Pa				•	IP42	•
	QBM2030-30		•	•					•	01000 Pa 01500 Pa 03000 Pa				•	IP42	•
	QBM81-3									20300 Pa					IP54	
	QBM81-5									50500 Pa					IP54	
	QBM81-10									1001000 Pa					IP54	
	QBM81-20									5002000 Pa					IP54	
	QBM81-50									10005000 Pa					IP54	

¹⁾ including mounting accessories

					2						
Model		Relative pre sensor		Differential pre sensor	essure	Differential press sensor	sure		Relative pressur sensor	e	
Medium		Liquid/g	as	Liquid/gas	5	Liquid/gas		Refrigerants			
Гуре		QBE2x03		QBE63		QBE3x00-D			QBE2x04-P		
Turne			/ersion	Out		Range	Sup	mbr	y Protection		
Туре		V	rersion	Out		Kange	Sup	ріу	Protection	MA	
	Relative	Differential	Thread	DC 010 V	DC 420 mA		AC 24 V	DC 1833 V			
QBE2003-P1			G 1/2″			01 bar			IP65		
QBE2003-P1.6			G 1/2″			01.6 bar			IP65		
QBE2003-P2.5			G 1/2″			02.5 bar			IP65		
QBE2003-P4			G 1/2″			04 bar			IP65		
QBE2003-P6			G 1/2"			06 bar			IP65		
QBE2003-P10			G 1/2"			010 bar			IP65		
QBE2003-P16			G 1/2"			016 bar			IP65		
QBE2003-P25			G 1/2" G 1/2"			025 bar 040 bar			IP65 IP65		
QBE2003-P40 QBE2003-P60			G 1/2 G 1/2″			040 bar			IP65		
QBE2003-P00			G 1/2"	_		01 bar	-		IP65		
QBE2103-P1.6			G 1/2"			01.6 bar			IP65		
QBE2103-P2.5			G 1/2"			02.5 bar			IP65		
QBE2103-P4			G 1/2"			04 bar			IP65		
QBE2103-P6			G 1/2″			06 bar			IP65		
QBE2103-P10			G 1/2″			010 bar			IP65		
QBE2103-P16			G 1/2″			016 bar			IP65		
QBE2103-P25			G 1/2″			025 bar			IP65		
QBE2103-P40			G 1/2″			040 bar			IP65		
QBE2103-P60			G 1/2″			060 bar			IP65		
QBE2103-P60 QBE61.3-DP2 QBE61.3-DP5			G 1/2″			02 bar			IP54		
QBE61.3-DP5			G 1/2"			05 bar			IP54		
QBEOI.S-DPIU			G 1/2"			010 bar			IP54		
QBE63-DP01 QBE63-DP02			G 1/8″			0100 mbar 0200 mbar			IP65		
QBE63-DP02 QBE63-DP05			G 1/8″ G 1/8″			0200 mbar		100	IP65 IP65		
QBE63-DP05			G 1/8″			01 bar		- 14	IP65		
QBE3000-D1			G 1/8″			01 bar			IP65		
QBE3000-D1.6	5		G 1/8″			01.6 bar			IP65		
QBE3000-D2.5			G 1/8″			02.5 bar			IP65		
QBE3000-D4			G 1/8″			04 bar			IP65		
QBE3000-D6			G 1/8″			06 bar			IP65		
QBE3000-D10			G 1/8″			010 bar			IP65		
QBE3000-D16		-	G 1/8″			016 bar			IP65		
QBE3100-D1			G 1/8″			01 bar			IP65		
QBE3100-D1.6			G 1/8″			01.6 bar			IP65		
QBE3100-D2.5			G 1/8″			02.5 bar			IP65		
QBE3100-D4			G 1/8″			04 bar			IP65		
QBE3100-D6			G 1/8″ G 1/8″			06 bar 010 bar			IP65 IP65		
QBE3100-D10 QBE3100-D16			G 1/8 G 1/8″			016 bar			IP65		
QBE2004-P10L			7/16-20 UNF			-1+9 bar			IP65		
QBE2004-P100			7/16-20 UNF			-1+9 bar			IP67		
			7/16-20 UNF			-1+29 bar			IP67		
QBE2004-P60L			7/16-20 UNF			-1+59 bar			IP67		
QBE2004-P30L QBE2004-P60L QBE2104-P10L QBE2104-P25L			7/16-20 UNF			-1+9 bar			IP67		
QBE2104-P25U			7/16-20 UNF			-1+24 bar			IP67		
QBE2104-P30L	J 🔳		7/16-20 UNF			-1+29 bar			IP67		
QBE2104-P60L	J		7/16-20 UNF			–1+59 bar			IP67		

¹⁾ including mounting accessories



Symaro flow – flexible and efficient measurement of flow

Innovative sensors for all requirements

Be it the flow of liquids or the flow of air, Symaro offers everything needed to ensure accurate flow measurements – from flow sensors to flow switches and velocity sensors. Since all types of flow sensors are available with DC 0...10 V or 4...20 mA outputs, the products are very versatile.

Ruggedness, stability and longevity

The vortex flow sensors for liquid media are available in glass-fiber reinforced plastic or rugged red brass. The sensors contain no moving parts, which makes them dirt-resistant and ensures an excellent media resistance. As a result, they ensure longevity and excellent long-term stability. The flow switches are made of glassfiber reinforced plastic featuring a Reed contact, which is actuated by a magnetic field, absolutely contact-free and without a return spring. This leads to stable switching points. Depending on the model, the switches offer pressure ranges up to 25 bar without using bellows, resulting in pressure-independent switching points. This means that the switching point is solely dependent on the volumetric flow. The Symaro range of flow switches covers nominal sizes from DN 10 to DN 200.

The air velocity sensor offers three measuring ranges: 0...5, 0...10 and 0...15 m/s. Thanks to its special thin-film sensing element, the sensor operates independently of the direction of flow and is dirt-resistant.

Highlights

- 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
- Excellent resistance to media
- Longevity and long-term stability
- Dirt-resistant
- Stable, pressure-independent switching point

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M	odel	Flow switch	Flow swit	ch	Flov	w switch		Flow se	nsor	Flov	v sensor	V	elocity sensor
M	edium	Liquids	Liquids		L	iquids		Liquio	ds	Li	iquids		Air
Ту	pe	QVE1900	QVE190	1		/E1902		QVE2×			/E3x00		QVM62.1
	Туре		Version				Output		Da	inge	Sur	ply	Protection
	туре		Version				Output		No	inge	Sup	ргу	FIOLECTION
		Nominal size	Thread	e contra	fillishori adla	DC 010 V	DC 420 mA	Relay contact			AC/DC 24 V	DC 1833 V	
	QVE1900	DN 32200											IP65
	QVE1901	DN 20200											IP65
	QVE1902.010	DN 10		Brass									IP65
	QVE1902.015	DN 15		Brass									IP65
	QVE1902.020	DN 20		Brass									IP65
	QVE1902.025	DN 25		Brass									IP65
	QVE2000.010	DN 10	G 1/2"	Plastic					1.	832 l/mi	n		IP65
	QVE2000.015	DN 15	G 3/4"	Plastic					3.	550 l/mi	n		IP65
	QVE2000.020	DN 20	G 1"	Plastic					5.	085 l/mi	n		IP65
	QVE2000.025	DN 25	G 1 1/4"	Plastic					9.0	150 l/mi	n		IP65
-iquids	QVE2100.010	DN 10	G 1/2"	Plastic					1.3	832 l/mi	n		IP65
Ligu	QVE2100.015	DN 15	G 3/4"	Plastic					3.	550 l/mi	n		IP65
	QVE2100.020	DN 20	G 1"	Plastic					5.0	085 l/mi	n		IP65
	QVE2100.025	DN 25	G 1 1/4"	Plastic					9.0	150 l/mi	n		IP65
	QVE3000.010	DN 10	G 3/4"	Red bra	SS				1.	832 l/mi	n		IP65
	QVE3000.015	DN 15	G 3/4"	Red bra	SS				3.	550 l/mi	n		IP65
	QVE3000.020	DN 20	G 1"	Red bra	SS					085 l/mi			IP65
	QVE3000.025	DN 25	G 1 1/4"	Red bra						150 l/mi			IP65
	QVE3100.010	DN 10	G 3/4"	Red bra						832 l/mi			IP65
	QVE3100.015	DN 15	G 3/4"	Red bra						550 l/mi			IP65
	QVE3100.020	DN 20	G 1"	Red bra						085 l/mi			IP65
	QVE3100.025	DN 25	G 1 1/4"	Red bra	SS				9.0	150 l/mi			IP65
Air	QVM62.1									05 m/ 010 m/ 015 m/	s		IP42
	Solar			Out	put		R	ange		Supp	lv	Protection	
					K	ontact				> 4	,y 20 V 20 V		

		DC 010 V	DC 420 m/	Relay contac		AC 24 V	DC 1830 \	
Model	Solar sensor							
Туре	QLS60				01000 W/m ²			IP65



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