



Symaro – innovative sensors, measurable quality

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

siemens.com/symaro



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 data logging 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		Humidi	ty	Air	quality	Fine dust		Pressu	re		Flov	V
		Sensors	Switching sensors 1)	Sensors	Switching sensors	Certified sensors	Sensors	Switching sensors	Fine dust sensors	Sensors	Switching sensors	Certified sensors	Flow sensors	Flow switches	Velocity sensors
	Room														
Air	Duct														
	Outside														
<u></u>	Immersion														
Water	Strap-on														
_>	Cable														







Symaro temperature – reliable and precise measurement at any place

Flexible sensors for temperature collection

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

Hiahliahts

- 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



Ty	/pe		QAA		Ç]AA()		QAM	QAE	QAC3	QAC	2	QAD	QAF)
	Туре			(Outpu	ıt			Range	Category	Sup	pply	Len	gth	Protection	MA 1)
		LG-Ni1000	Pt100	Pt1000	NTC 10k	DC 010 V	DC 420 mA	Modbus RTU	Temperature °C	High quality	AC 24 V	DC 13.535 V	Sensor	Cable		
	QAA2010								050						IP30	
	QAA2012								050						IP30	
_	QAA2030								050						IP30	
200	QAA2061								050						IP30	
ă	QAA2061D								050						IP30	
	QAA2071								050						IP30	
	QAA24								050						IP30	
	QAM2110.040								-5080				400		IP54	
	QAM2112.040								-5080				400		IP42	
	QAM2112.200								-5080				2000		IP42	
	QAM2120.040								-5080				400		IP42	
ţ	QAM2120.200								-5080				2000		IP42	
ā	QAM2120.600								-5080				6000		IP42	
	QAM2130.040								-4080				400		IP42	
	QAM2151.040/MO								-5050				400		IP54	
	QAM2161.040								-5050			-	400		IP54	
	QAM2171.040								-5050				400		IP54	
	QAE2111.010								-30130				100		IP42	
	QAE2111.015								-30130				150		IP42	
	QAE2112.010								-30130				100		IP42	
	QAE2112.015			-					-30130				150		IP42	
	QAE2120.010								-30130				100		IP42	-
	QAE2120.015								-30130				150		IP42	
	QAE2121.010								-30130				100		IP42	
	QAE2121.015								-30130				150		IP42 IP42	
	QAE2130.010 QAE2130.015								-30125 -30125				100 150		IP42	
0	QAE2154.010/MO								-10120				100		IP54	
i.	QAE2164.010								-10120				100		IP54	
ŭ	QAE2164.015								-10120				150		IP54	
=	QAE2174.010								-10120				100		IP54	
	QAE2174.015								-10120				150		IP54	
	QAE3010.010								-50200				100		IP65	
	QAE3010.016								-50200				160		IP65	
	QAE3075.010								0200			2)	100		IP65	
	QAE3075.016								0200			2)	160		IP65	
	QAE26.90								-50180				65	2000	IP64	
	QAE26.91								-50180				125	2000	IP64	
	QAE26.93								-50180				240	2000	IP64	
	QAE26.95								-50180				465	2000	IP64	
_	QAD2010								-30130						IP42	
0-0	QAD2012								-30130						IP42	-
t e	QAD2030								-30125						IP42	
0	QAD22								-30130						IP42	-
	QAC2010								-5070						IP54	
a	QAC2012								-5070						IP54	
·iv	QAC2030								-4070						IP54	
Ö	QAC3161								-5050		-	-			IP65	
	QAC3171								-5050						IP65	
	QAC22								-5070					2005	IP54	
	QAP1030.200								-2595					2000	IP65	
	QAP2010.150			_					-30130					1500	IP65	
0	QAP2012.150								-30130					1500	IP65	
Je C	QAP21.2	-							-30180					1500	IP67	
	QAP21.3								-30130					1500	IP65	
	QAP22								-2595 -5080					2000	IP65 IP67	
	QAZ21.682/101								-5080					2000	1167	

 $^{^{1)}}$ 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 long-term 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.



	Туре	Vers	sion			Out	put			Range		Cate	gory		Supply	/	Protection	MA 1)
		Humidity	Temperature	LG-Ni1000	DC 010 V	DC 420 mA	Modbus RTU	Relay contact	Display	Humidity % r.h.	Temperature ²⁾ °C	High quality	Certified	AC 24 V	DC 13.535 V	AC 230 V		
	QFA2000									095	-1550						IP30	
	QFA2001									095	-1550						IP30	
	QFA2020									095	-1550						IP30	
	QFA2060									095	-1550						IP30	
	QFA2060D									095	-1550						IP30	
	QFA2071									095	-1550						IP30	
	QFA3100									0100							IP65	
Ξ	QFA3101									0100							IP65	
00	QFA3160									0100	-4070						IP65	
4	QFA3160D									0100	-4070						IP65	
	QFA3171									0100	-4070						IP65	
	QFA3171D									0100	-4070						IP65	
	QFA4160									0100	-4070						IP65	
	QFA4160D									0100	-4070						IP65	
	QFA4171									0100	-4070						IP65	
	QFA4171D									0100	-4070						IP65	
	QFM1660								_	1090	050						IP42	
	QFM2100									095	-1560						IP54	
	QFM2101									095	-1560						IP54	
	QFM2120									095	-1560						IP54	
	QFM2150/MO									095	-1560						IP54	
	QFM2160									095	-1560						IP54	
	QFM2171									095	-1560						IP54	
+	QFM3100					_				0100	1500						IP65	
Duct	QFM3101									0100							IP65	
	QFM3150/MO									0100	-4070						IP65	
	QFM3160									0100	-4070						IP65	
	QFM3160D									0100	-4070						IP65	
	QFM3171					-				0100	-4070						IP65	
	QFM3171D									0100	-4070						IP65	
	QFM4160								_	0100	-4070						IP65	
	QFM4171				_					0100	-4070		77				IP65	
	QFA3100 + AQF3100									0100	1070						IP65	_
de	QFA3101 + AQF3100				_					0100							IP65	
Outsid	QFA3160 + AQF3100									0100	-4070						IP65	
ō	QFA3171 + AQF3100				_					0100	-4070						IP65	
oint								-		0100	-4070						IP40	
Dew point	QXA2101							•		0100							IP40	
ts	QFA1000									3090 2)							IP20	
ostats	QFA1001									3090 2)							IP20	
aro	QFM81.2									1595 ²⁾							IP30	
ž	QFM81.21									1595 ²⁾							IP55	
	QT MOT.ZT									1393							11 33	

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 (CO₂/VOC¹⁾, CO₂/T and CO₂/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 CO_2 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

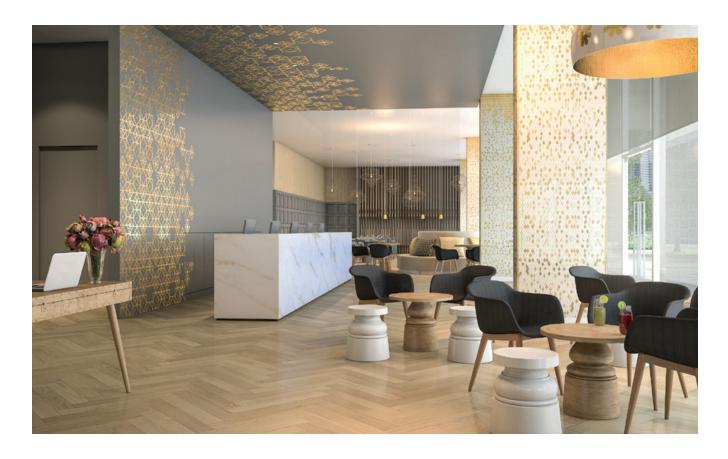


	Туре		Vers	sion			Outpu	ıt			Ran	ge			Supply	7	Protection	MA ¹⁾
		CO	NOC	Temperature	Humidity	DC 05 V or DC 010 V 420 mA	Modbus RTU	Relay contact	Display	CO ₂ 02000 ppm	Temperature 050/ -3535 °C	Temperature passive ²⁾	Humidity 095% r.h.	AC 24 V	DC 1535 V	AC 230 V		
	QPA1000																IP30	
	QPA2000																IP30	
	QPA2002																IP30	
	QPA2002D									-							IP30	
2	QPA2060									-	-						IP30	
Room	QPA2060D									-	-						IP30	
~	QPA2062										-		-				IP30	
	QPA2062D									-	-		-				IP30	
	QPA2080									-							IP30	
	QPA2080D			-						-				-	-		IP30	
	QPA84																IP30	
	QPM1100																IP54	-
	QPM2100									-							IP54	
	QPM2102																IP54	-
	QPM2102D									-							IP54	
	QPM2102/MO									-							IP54	-
Duct	QPM2150/MO										-						IP54	
	QPM2152/MO									-	-		-				IP54	-
	QPM2160										-						IP54	
	QPM2160D										-						IP54	-
	QPM2162												-				IP54	
	QPM2162D									-	-		-				IP54	-
	QPM2180					-											IP54	

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







Symaro fine dust sensors – for a healthier indoor climate

What is fine dust?

Fine dust is contained in the airborne particulate matter – invisible to the naked eye. The particles enter the nose, mouth, and throat and can even penetrate deep into the lungs, causing lung cancer and cardiovascular diseases.

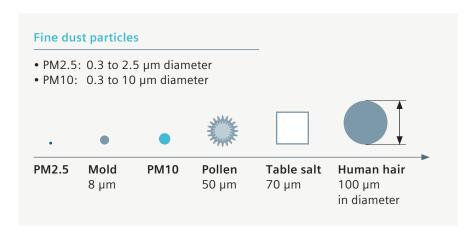
Newly launched fine dust sensors

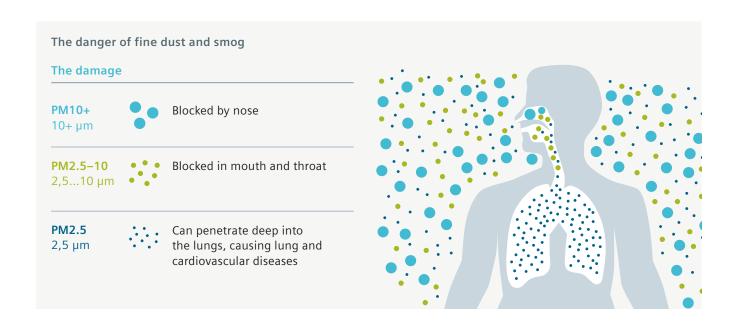
The first-of-their-kind fine dust sensors from Siemens are specifically designed to monitor and control air pollution in offices and other indoor spaces. The sensors complement existing Siemens CO₂, humidity, VOC¹⁾, and temperature controls to form a comprehensive set of applications for a healthy indoor environment solutions portfolio.

Highlights

- Sufficient selection of multi-sensors for room and duct application
- Accurate measurement of fine dust concentration
- Very reliable for both room and duct monitoring and control
- Selectable in measuring range
- Multiple output in one
- Sensor module replaced quickly and easily in routine service

¹⁾VOC: Volatile Organic Compound





A worldwide issue

Coming from our everyday surroundings, fine dust is a ubiquitous health hazard: China, India and the Middle East experience exceptionally harsh consequences; and bustling European cities such as London, Paris or Rome are also increasingly at risk.

The European Environment Agency estimates that every year more than 400,000 people die ¹⁾ in Europe alone as a result of air pollution.

¹⁾ EEA Report No 28/2016, Air quality in Europe 2016

Mo	odel		Fir	ne du:	st sens	sor			Fir	ne dus	t sensor	Fine d	ust duct se	ensor			Fine	dust duct senso	or
Ту	oe e			QSA	2700			QSA2700D				(QSM2100					QSM2162	
	Туре	V	/ersio	n			Out	tput Ra				lange Categ		Category		Sup	ply	Protection	MA
		PM2.5	Humidity	Temperature	DC 05 V	DC 010 V	DC 420mAV	Relay contact	Modbus RTU	Display	PM2.5	Humidity 595% r.h.	Temperature 050/ -3535 °C	High quality	Certified	AC 24 V	DC 13.535 V		
Room	QSA2700	-				-			٠							-	•	IP30	
Ro	QSA2700D	•				-			•	-	050 μg/m³ 0100 μg/m³					-	-	IP30	
Duct	QSM2100	-			-	-	-				0300 μg/m³ 0500 μg/m³					-	-	IP54	2)
DO	QSM2162		•			•										•		IP54	2)

²⁾ Including the mounting accessories



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







- 21													•			
Туре	Ver	sion			Ou	tput				Range	Cate	gory	Sup	ply	Protection	MA 1)
	Relative	Differential	DC 010 V	DC 420 mA	Modbus RTU	Switchable root function	Relay contact	Display	Adjustable		High quality	Certified	AC 24 V	DC 1833 V		
QBM3020-1U										-5050 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										-5050 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	
QBM3120-25D										02500 Pa					IP54	
₹ QBM3700-5/MO										0500 Pa			2)		IP54	
QBM3700-13/MO										01250 Pa			2)		IP54	
QBM3700-25/MO										02500 Pa			2)		IP54	
QBM4000-1										0100 Pa					IP54	
QBM4000-3										0300 Pa					IP54	
QBM4000-10										01000 Pa					IP54	
QBM4000-25										02500 Pa					IP54	
QBM4100-1U										-5050 Pa					IP54	
QBM4100-1D										0100 Pa					IP54	
QBM2030-1U		٠							•	-5050 Pa -100100 Pa 0100 Pa				٠	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⁾ 24 V DC



	, p.s.		,				V =20.000			,	
	Туре		١	/ersion	Out	tput	Range	Sup	ply	Protection	MA 1)
		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"			025 bar			IP65	
	QBE2003-P40			G 1/2"			040 bar			IP65	
	QBE2003-P60			G 1/2"			060 bar			IP65	
	QBE2103-P1			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	
	OPE 2102 B40			G 1/2"			040 bar			IP65	
Liquid/gases	QBE2103-P60			G 1/2"			060 bar			IP65	
/aa	QBE61.3-DP2			G 1/2"			02 bar			IP54	
	QBE61.3-DP5			G 1/2"			05 bar			IP54	
-5	QBE61.3-DP10			G 1/2"			010 bar			IP54	
	QBE63-DP01			G 1/8"			0100 mbar			IP65	
	QBE63-DP02			G 1/8"			0200 mbar			IP65	
	QBE63-DP05			G 1/8"			0500 mbar			IP65	
	QBE63-DP1			G 1/8"			01 bar			IP65	
	QBE3000-D1			G 1/8"			01 bar			IP65	
	QBE3000-D1.6			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"			06 bar			IP65	
	QBE3100-D10			G 1/8"			010 bar			IP65	
	QBE3100-D16			G 1/8"			016 bar			IP65	
	QBE2004-P10U			7/16-20 UNF			–19 bar			IP67	
	QBE2004-P25U			7/16-20 UNF			-124 bar			IP67	
4				7/16-20 UNF			-129 bar			IP67	
Refrigerants	QBE2004-P60U			7/16-20 UNF			-159 bar			IP67	
ige	QBE2104-P10U			7/16-20 UNF			–19 bar			IP67	
Pefr	QBE2104-P25U			7/16-20 UNF			-124 bar			IP67	
-	QBE2104-P30U			7/16-20 UNF			-129 bar			IP67	
	QBE2104-P60U			7/16-20 UNF			-159 bar			IP67	
	QUEE 10 1 1000			77.0 20 0111			155 bai			07	

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 glass-fiber 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 thinfilm 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



	Туре	Version				Output		Range	Sup	ply	Protection
		Nominal size	Thread	Pipe housing	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/min			IP65
	QVE2000.015	DN 15	G 3/4"	Plastic				3.550 l/min			IP65
	QVE2000.020	DN 20	G 1"	Plastic				5.085 l/min			IP65
	QVE2000.025	DN 25	G 1 1/4"	Plastic				9.0150 l/min			IP65
rids	QVE2100.010	DN 10	G 1/2"	Plastic				1.832 l/min			IP65
<u>.</u>	QVE2100.015	DN 15	G 3/4"	Plastic				3.550 l/min			IP65
	QVE2100.020	DN 20	G 1"	Plastic				5.085 l/min			IP65
	QVE2100.025	DN 25	G 1 1/4"	Plastic				9.0150 l/min			IP65
	QVE3000.010	DN 10	G 3/4"	Red brass				1.832 l/min			IP65
	QVE3000.015	DN 15	G 3/4"	Red brass				3.550 l/min			IP65
	QVE3000.020	DN 20	G 1"	Red brass				5.085 l/min			IP65
	QVE3000.025	DN 25	G 1 1/4"	Red brass				9.0150 l/min			IP65
	QVE3100.010	DN 10	G 3/4"	Red brass				1.832 l/min			IP65
	QVE3100.015	DN 15	G 3/4"	Red brass				3.550 l/min			IP65
	QVE3100.020	DN 20	G 1"	Red brass				5.085 l/min			IP65
	QVE3100.025	DN 25	G 1 1/4"	Red brass				9.0150 l/min			IP65
Air	QVM62.1							05 m/s 010 m/s 015 m/s			IP42

Solar	
Model	Solar sensor
Туре	QLS60

	Output		Range	Sup	ply	Protection
DC010V	DC 420 mA	Relay contact		AC 24 V	DC 1830 V	
	=		01000 W/m ²	-		IP65



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We work together with customers and partners to create an ecosystem that intuitively responds to the needs of people and helps customers to better use resources.

It helps our customers to thrive, communities to progress and supports sustainable development.

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