



Symaro – innovative sensors, measurable quality



Answers for infrastructure.

SIEMENS



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

■ A range of sensors to meet every need

Whether for measuring temperature, pressure, humidity or air quality 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 Siemens HVAC controllers. In addition, the connection to standard commercial third-party 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 operation, control, and room climate. The sensors allow energy-efficient, demand-controlled ventilation for optimum room quality and comfort. They automatically compensate for changes in building occupancy, building usage or plant characteristics.

The measured value display on Symaro multisensors makes them even more convenient. The LCD display alternately indicates the different 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 startup. They have also been intensively tested in the in-house climate 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, and functional design
- High level of comfort – provided by demand-controlled ventilation
- Reduced installation and cabling effort – thanks to multisensors
- Guaranteed quality – the result of many years of experience, in-depth applications expertise, and systematic sensor tests
- Comprehensive support from experts worldwide

		Temperature		Humidity			Air quality		Pressure			Xtra		
		Sensors	Switching sensors ¹⁾	Sensors	Switching sensors	Certified sensors	Sensors	Switching sensors	Sensors	Switching sensors	Certified sensors	Velocity sensors	Switching velocity sensors	Solar sensors
Air	Room	■	■	■	■	■	■	■						
	Duct	■	■	■	■	■	■		■	■	■	■		
	Outside	■		■		■								■
Water, refrigerant	Immersion	■							■			■		
	Strap-on	■			■									
	Cable	■												

¹⁾ see separate overview of thermostats





Symaro temperature – reliable and precise measurement at any place

■ Flexible sensors for temperature measurement

Prepared for every situation: 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.

■ Energy-efficient and convenient for every application

- When it comes to room sensors, the optimum weighting of room and wall temperatures guarantees the best possible comfort even during dynamic processes.
- 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 a construction and housing design that comply to all measuring technology and installation requirements



								
Model	Room sensor	Room sensor	Duct sensor	Immersion sensor	Outside sensor	Outside sensor	Strap-on sensor	Cable sensor
Type	QAA	QAA...D	QAM	QAE	QAC3...	QAC2...	QAD	QAP

	Type	Output						Range	Category	Supply		Length		Protection	MA ¹⁾
		LG-Ni 1000	Pt100	Pt1000	NTC 10k	DC 0...10 V	DC 4...20 mA			°C	High quality	AC 24 V	DC 13.5...35 V		
Room	QAA2010		■					0...+50						IP30	
	QAA2012			■				0...+50						IP30	
	QAA2030				■			0...+50						IP30	
	QAA2061					■		0...+50		■	■			IP30	
	QAA2061D					■		0...+50		■	■			IP30	
	QAA2071						■	0...+50			■			IP30	
Duct	QAA24	■						0...+50						IP30	
	QAM2110.040		■					-50...+80				400		IP54	■
	QAM2112.040			■				-50...+80				400		IP42	■
	QAM2112.200				■			-50...+80				2000		IP42	■
	QAM2120.040	■						-50...+80				400		IP42	■
	QAM2120.200	■						-50...+80				2000		IP42	■
	QAM2120.600	■						-50...+80				6000		IP42	■
	QAM2130.040				■			-40...+80				400		IP42	■
	QAM2161.040					■		-50...+50		■	■	400		IP54	■
Immersion	QAM2171.040					■		-50...+50			■	400		IP54	■
	QAE2111.010		■					-30...+130				100		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	■						-30...+130				100		IP42	
	QAE2121.015	■						-30...+130				150		IP42	
	QAE2130.010				■			-30...+125				100		IP42	
	QAE2130.015				■			-30...+125				150		IP42	
	QAE2164.010					■		-10...+120		■	■	100		IP54	
	QAE2164.015					■		-10...+120		■	■	150		IP54	
	QAE2174.010						■	-10...+120			■	100		IP54	
	QAE2174.015						■	-10...+120			■	150		IP54	
	QAE3010.010							-50...+200	■			100		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	2000	IP64	■
QAE26.91	■						-50...+180				125	2000	IP64	■	
QAE26.93	■						-50...+180				240	2000	IP64	■	
QAE26.95	■						-50...+180				465	2000	IP64	■	
Strap-on	QAD2010		■					-30...+130						IP42	■
	QAD2012			■				-30...+130						IP42	■
	QAD2030				■			-30...+125						IP42	■
Outside	QAD22	■						-30...+130						IP42	■
	QAC2010		■					-50...+70						IP54	
	QAC2012			■				-50...+70						IP54	
	QAC2030				■			-40...+70						IP54	
	QAC3161					■		-50...+50	■	■	■			IP65	
	QAC3171						■	-50...+50	■		■			IP65	
Cable	QAC22	■						-50...+70						IP54	
	QAP1030.200				■			-25...+95				2000		IP65	
	QAP2010.150		■					-30...+130				1500		IP65	
	QAP2012.150			■				-30...+130				1500		IP65	
	QAP21.2	■						-30...+180				1500		IP67	
	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 even under difficult conditions

■ Robust sensors for energy efficiency and 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

■ Innovative high-quality sensors for strictest standards

Symaro 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 and economical in handling

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

■ Quality with experience thanks to a high-precision calibration laboratory

Our in-house 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 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



								
Model	Room sensor	Room sensor	Duct sensor	Duct sensor	Room sensor	Room sensor	Outside sensor	Dew point sensor
Type	QFA2...	QFA2...D	QFM2...	QFM3...D	QFA3...	QFA3...D	QFA3... + AQF3100	QXA2...

	Type	Version		Output				Range		Category		Supply		Protection	MA ²⁾
		Humidity	Temperature	DC 0...10 V	DC 4...20 mA	Relay contact	Display	Humidity % r.F.	Temperature ³⁾ °C	High quality	Certified	AC 24 V	DC 13.5...35 V		
Room	QFA2000	■		■				0...95				■	■	IP30	
	QFA2060	■	■	■				0...95	-15...+50			■	■	IP30	
	QFA2060D	■	■	■			■	0...95	-15...+50			■	■	IP30	
	QFA3100	■		■				0...100		■		■	■	IP65	
	QFA3101	■		■	■			0...100		■		■	■	IP65	
	QFA3160	■	■	■				0...100	-40...+70	■		■	■	IP65	
	QFA3160D	■	■	■			■	0...100	-40...+70	■		■	■	IP65	
	QFA3171	■	■	■	■			0...100	-40...+70	■		■	■	IP65	
	QFA3171D	■	■	■	■	■		0...100	-40...+70	■		■	■	IP65	
	QFA4160	■	■	■				0...100	-40...+70		■	■	■	IP65	
	QFA4160D	■	■	■			■	0...100	-40...+70		■	■	■	IP65	
	QFA4171	■	■	■	■			0...100	-40...+70		■	■	■	IP65	
	QFA4171D	■	■	■	■	■		0...100	-40...+70		■	■	■	IP65	
Duct	QFM2100	■		■				0...95				■	■	IP54	■
	QFM2101	■		■	■			0...95				■	■	IP54	■
	QFM2160	■	■	■				0...95	-15...+60			■	■	IP54	■
	QFM2171	■	■	■	■			0...95	-15...+60			■	■	IP54	■
	QFM3100	■		■				0...100		■		■	■	IP65	■
	QFM3101	■		■	■			0...100		■		■	■	IP65	■
	QFM3160	■	■	■				0...100	-40...+70	■		■	■	IP65	■
	QFM3160D	■	■	■			■	0...100	-40...+70	■		■	■	IP65	■
	QFM3171	■	■	■	■			0...100	-40...+70	■		■	■	IP65	■
	QFM3171D	■	■	■	■	■		0...100	-40...+70	■		■	■	IP65	■
	QFM4160	■	■	■				0...100	-40...+70		■	■	■	IP65	■
QFM4171	■	■	■	■			0...100	-40...+70		■	■	■	IP65	■	
Outside	QFA3100 + AQF3100	■		■				0...100		■		■	■	IP65	
	QFA3101 + AQF3100	■		■	■			0...100		■		■	■	IP65	
	QFA3160 + AQF3100	■	■	■				0...100	-40...+70	■		■	■	IP65	
	QFA3171 + AQF3100	■	■	■	■			0...100	-40...+70	■		■	■	IP65	
Dew point	QXA2000	■					■	0...100				■		IP40	
Hygrostats	QFA1000	■					■	30...90 ³⁾						IP20	
	QFA1001	■			■		■	30...90 ³⁾						IP20	
	QFM81.2	■			■		■	15...95 ³⁾						IP30	■
	QFM81.21	■			■		■	15...95 ³⁾						IP55	■

¹⁾ equivalent internationally to LNE, PTB, NPL, NIST, BEV etc, ²⁾ including mounting accessories, ³⁾ measurements adjustable



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

■ Unique product range with stable measurement method

Symaro air quality sensors cover all requirements and are suitable for every type of building. The high-precision multisensors (CO₂/VOC¹), CO₂/T and CO₂/T/F) 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 startup, 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. Thanks 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 comfort through demand-controlled ventilation

Optimum air quality with low energy consumption: In conjunction with Siemens systems, controllers, and frequency converters, Symaro air quality sensors allow for a wide range of tested and proven solutions for optimized demand-controlled ventilation²⁾. Practical experience and measurement results prove that 20% to 70% in energy and cost savings can be achieved.

Highlights

- Wide selection of multisensors 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

					
Model	Room sensor	Room sensor	Duct sensor	Duct sensor	Room sensor
Type	QPA20...	QPA20...D	QPM21...	QPM21...D	QPA84

	Type	Version				Output			Range			Supply			Protection	MA ³⁾
		CO ₂	VOC	Temperature	Humidity	DC 0...10 V	Relay contact	Display	CO ₂ 0...2000 ppm	Temperature 0...50 / -35...+35 °C	Humidity 0...95% r.F.	AC 24 V	DC 15...35 V	AC 230 V		
Room	QPA2000	■				■			■			■	■		IP30	
	QPA2002	■	■			■			■			■	■		IP30	
	QPA2002D	■	■			■		■	■			■	■		IP30	
	QPA2060	■		■		■			■	■		■	■		IP30	
	QPA2060D	■		■		■		■	■	■		■	■		IP30	
	QPA2062	■		■	■	■			■	■	■	■	■		IP30	
	QPA2062D	■		■	■	■		■	■	■	■	■	■		IP30	
QPA84		■					■						■	IP30		
Duct	QPM2100	■				■			■			■	■		IP54	■
	QPM2102	■	■			■			■			■	■		IP54	■
	QPM2102D	■	■			■		■	■			■	■		IP54	■
	QPM2160	■		■		■			■	■		■	■		IP54	■
	QPM2160D	■		■		■		■	■	■		■	■		IP54	■
	QPM2162	■		■	■	■			■	■	■	■	■		IP54	■
	QPM2162D	■		■	■	■		■	■	■	■	■	■		IP54	■

¹⁾ VOC: Volatile Organic Compound (mixed gas), ²⁾ you will find detailed information in the brochure (order no. 0-92166-en): "Demand-controlled ventilation", ³⁾ including mounting accessories





Symaro pressure – precise measurement of differential and absolute pressure

■ 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.

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.



Model	Differential pressure sensors	Differential pressure sensors	Differential pressure sensors	Differential pressure sensors	Differential pressure switch	Differential pressure sensors	Differential pressure sensors	Absolute pressure sensors	Absolute pressure sensors
Medium	Air	Air	Air	Air	Air	Liquid/gas	Liquid/gas	Liquid/gas	Refrigerants
Type	QBM65	QBM65.1	QBM75	QBM66	QBM81	QBE64	QBE63	QBE2002-P	QBE2x01-P

	Type	Version		Output			Range			Category		Supply		Protection	MA ¹⁾	
		Absolute	Differential	DC 0...10 V	DC 4...20 mA	Root function	Relay contact	Display	Adjustable	High quality	Certified	AC 24 V	DC 20...30 V			
Air	QBM65-1U		■	■						-50...+50 Pa	■		■	■	IP54	■
	QBM65-1		■	■						0...100 Pa	■		■	■	IP54	■
	QBM65-3		■	■						0...300 Pa	■		■	■	IP54	■
	QBM65-5		■	■						0...500 Pa	■		■	■	IP54	■
	QBM65-10		■	■						0...1000 Pa	■		■	■	IP54	■
	QBM65-25		■	■						0...2500 Pa	■		■	■	IP54	■
	QBM65.1-1		■	■					■	0...100 Pa	■		■	■	IP54	■
	QBM65.1-3		■	■					■	0...300 Pa	■		■	■	IP54	■
	QBM65.1-5		■	■					■	0...500 Pa	■		■	■	IP54	■
	QBM65.1-10		■	■					■	0...1000 Pa	■		■	■	IP54	■
	QBM65.1-25		■	■					■	0...2500 Pa	■		■	■	IP54	■
	QBM65.2-1		■	■			■			0...100 Pa	■		■	■	IP54	■
	QBM65.2-3		■	■			■			0...300 Pa	■		■	■	IP54	■
	QBM65.2-5		■	■			■			0...500 Pa	■		■	■	IP54	■
	QBM65.2-10		■	■			■			0...1000 Pa	■		■	■	IP54	■
	QBM65.2-25		■	■			■			0...2500 Pa	■		■	■	IP54	■
	QBM65-1/C		■	■						0...100 Pa		■	■	■	IP54	■
	QBM65-3/C		■	■						0...300 Pa		■	■	■	IP54	■
	QBM65-10/C		■	■						0...1000 Pa		■	■	■	IP54	■
	QBM65-25/C		■	■						0...2500 Pa		■	■	■	IP54	■
QBM75-1U/C		■	■		■				-50...+50 Pa		■	■	■	IP54	■	
QBM75.1-1/C		■	■		■			■	0...100 Pa		■	■	■	IP54	■	
QBM66.201		■	■					■	0...100 Pa 0...200 Pa			■	■	IP42	■	
QBM66.202		■	■					■	0...250 Pa 0...500 Pa			■	■	IP42	■	
QBM66.204		■	■					■	0...500 Pa 0...1000 Pa			■	■	IP42	■	
QBM66.203		■	■					■	0...1500 Pa 0...3000 Pa			■	■	IP42	■	
QBM81-3		■	■					■	20...300 Pa					IP54	■	
QBM81-5		■	■					■	50...500 Pa					IP54	■	
QBM81-10		■	■					■	100...1000 Pa					IP54	■	
Liquid/gases	QBE2002-P1	■		■						0...1 bar			■	■	IP65	
	QBE2002-P2	■		■						0...2 bar			■	■	IP65	
	QBE2002-P4	■		■						0...4 bar			■	■	IP65	
	QBE2002-P5	■		■						0...5 bar			■	■	IP65	
	QBE2002-P10	■		■						0...10 bar			■	■	IP65	
	QBE2002-P16	■		■						0...16 bar			■	■	IP65	
	QBE2002-P20	■		■						0...20 bar			■	■	IP65	
	QBE2002-P25	■		■						0...25 bar			■	■	IP65	
	QBE2002-P40	■		■						0...40 bar			■	■	IP65	
	QBE61.3-DP2		■	■						0...2 bar			■	■	IP54	
	QBE61.3-DP5		■	■						0...5 bar			■	■	IP54	
	QBE61.3-DP10		■	■						0...10 bar			■	■	IP54	
	QBE63-DP01		■	■						0...100 mbar			■	■	IP65	
	QBE63-DP03		■	■						0...200 mbar			■	■	IP65	
	QBE63-DP05		■	■						0...500 mbar			■	■	IP65	
QBE63-DP1		■	■						0...1 bar			■	■	IP65		
QBE64-DP4		■	■						0...4 bar			■	■	IP65		
Refrigerants	QBE2001-P10U	■		■						-1...+9 bar			■	■	IP67	
	QBE2001-P25U	■		■						-1...+24 bar			■	■	IP67	
	QBE2001-P30U	■		■						-1...+29 bar			■	■	IP67	
	QBE2101-P10U	■			■					-1...+9 bar			■	■	IP67	
	QBE2101-P25U	■			■					-1...+24 bar			■	■	IP67	
	QBE2101-P30U	■			■					-1...+29 bar			■	■	IP67	

¹⁾ including mounting accessories



Model	Solar sensors	Air velocity sensors	Flow switch	Flow switch
Type	QLS60	QVM62.1	QVE1900	QVE1901
Medium		Air	Water, refrigerants	Water, refrigerants
Measurand	Radiation intensity	Velocity volumetric flow	Velocity volumetric flow	Velocity volumetric flow

Symaro Xtra – best quality even for special applications

Special sensors to complement the range

The comprehensive Symaro range is complemented by a selection of sensors with a variety of different measurement parameters, from solar sensors to air velocity sensors and flow switches.

Users can therefore select precisely the products they need from a truly comprehensive, transparent, and modular sensor range for all applications.

Highlights

- Supports energy-efficient control – by measuring solar irradiation
- Point measurement of air velocity or the volumetric flow in air ducts
- Increased security – thanks to flow monitoring in HVAC plants and hydraulic systems

Type	Description	Output			Range	Supply	Protection	Usage/comment
		DC 0...10 V	DC 4...20 mA	Relay contact				
QLS60	Solar sensor	■	■		0...1000 W/m ²	AC 24 V, DC 18...30 V	IP65	Solar cell
QVM62.1	Air velocity sensor	■			0...5 m/s 0...10 m/s 0...15 m/s	AC 24 V	IP42	Anemometric measurement principle
QVE1900	Flow switch			■	Pipes DN 1 1/4...8" (32...200 mm)		IP65	Paddle switch for high currents Contact rating 15 (8) A, AC 24...250 V PN 11 bar, screw-in body R1" brass
QVE1901	Flow switch			■	Pipes DN 3/4...8" (20...200 mm)		IP65	Paddle switch for use in connection with building automation and control systems. Contact rating 1 A, < AC 230 V / DC 48 V, < 26 VA / 20 W PN 25 bar, screw-in body G½" brass



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 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



Answers for infrastructure.

■ Megatrends driving the future

The megatrends – demographic change, urbanization, climate change and globalization – are shaping the world today. These have an unprecedented impact on our lives and on vital sectors of our economy.

■ Innovative technologies to answer the associated toughest questions

Throughout a 160-year history of proven research and engineering talent, with more than 50,000 active patents, Siemens has continuously provided its customers with innovations in the areas of healthcare, energy, industry and infrastructure – globally and locally.

■ Increase productivity and efficiency through complete building life cycle management

Building Technologies offers intelligent integrated solutions for industry, commercial and residential buildings and public infrastructure. Over the entire facility's life cycle, our comprehensive and environmentally conscious portfolio of products, systems, solutions and services in the fields of electrical installation technology, building automation, fire safety and electronic security, ensures the:

- optimum comfort and highest energy efficiency in buildings,
- safety and security for people, processes and assets,
- increased business productivity.



Siemens Switzerland Ltd
Industry Sector
Building Technologies Division
International Headquarters
Gubelstrasse 22
6301 Zug
Switzerland
Tel +41 41 724 24 24

Siemens Ltd
Industry Sector
Building Technologies Division
Units 1006-10
10/F, China Resources Building
26 Harbour Road
Wanchai, Hong Kong
Tel +852 2870 7888

Siemens Building Technologies
Industry Sector
Brunel House
Sir William Siemens Square, Frimley
Camberley
Surrey, GU16 8QD
United Kingdom
Tel +44 1276 696000

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.

© Siemens Switzerland Ltd • Order no. 0-92162-en • 20901