

Symaro™ – the range of sensors that persuades

Symaro™ simplifies and standardizes the use of sensors

Symaro™ – the new range of sensors from Siemens – simplifies and standardizes the use and installation of sensors in the most innovative way.

The new products offer you a number of benefits:

Implementation of the platform concept

The entire range of sensors is of modular design.

The result is an easy-to-understand, clearly structured product range that meets all requirements of building services plant.

Effective and accurate control

The clever design and the powerful, digital compensating algorithms of the Symaro™ range effectively suppress electrical interference, enabling the sensors to deliver unambiguous measuring signals in all situations.

For practical use

Symaro™ sensors are fully tested in our own HVAC laboratory and their reliability has been proven in extensive field tests.

Swiss production and full-scale final inspection

The sensors are made automatically in our production facility in Switzerland. Before leaving the factory, the characteristics of each sensor are checked and documented. Production date and serial number markings on the product ensure traceability.

An unmatched range of products

Decades of experience in the HVAC field and in building services plant enable Siemens to offer a unique range of products that operate reliably and safely in all situations.

Straightforward handling

Even staff with no special training can easily mount and commission the Symaro™ sensors.

		Temperature			Humidity, dew point		Indoor air quality		Pressure		Miscellaneous						
		Sensors	Switching sensors ¹⁾	Certified sensors	Sensors	Switching sensors	Certified sensors	Sensors	Switching sensors	Combi sensors	Sensors	Switching sensors	Certified sensors	Velocity sensor	Velocity sensor, switching	Solar sensor	Flue gas sensor
Air	Room	•	•		•	•	•	•	•								
	Air duct	•	•		•	•	•	•		•	•	•	•				•
	Outside	•			•		•									•	
Water, refrigerants	Immersion	•								•				•			
	Strap-on	•				•											
	Cable	•															
Accessories	•			•	•	•	•		•	•	•						

¹⁾ Refer to separate overview of thermostats

Symaro™ T: Temperature

Reliable and accurate temperature acquisition at any location



Model	Room sensors	Duct sensors	Immersion sensors	Strap-on sensors	Outside sensors	Outside sensors	Cable sensors
Type reference	QAA	QAM	QAE	QAD	QAC	QAC	QAP
Category: Standard	•	•	•	•	•		•
High-quality						•	
Certified							

The benefits of Siemens temperature sensors:

- Optimized for use in heating, ventilation, air conditioning and refrigeration plant. All standard measuring ranges are available.
- All types of output signals are available: Passive LG-Ni1000, PT100 and active DC 0..10 V and 4..20mA.
- Flexible duct averaging sensors in 3 different lengths, giving very reliable measuring data independent of the flow conditions.
- Very accurate immersion sensors with and without protection pocket and fast strap-on sensors.
- Very elegant room sensors in different designs with fast reaction time.
- A frost protection range for both proportional and on/off solution.

Symaro™ H: Humidity

Highly stable acquisition of humidity over long periods of time even under extreme conditions



Model	Room sensors	Room sensors	Duct sensors	Outside sensors	Condensation monitors
Type reference	QFA	QFA	QFM	QFA	QXA
Category: Standard	•		•		•
High-quality		•	•	•	
Certified		•	•		

The benefits of Siemens humidity sensors:

- Capacitive humidity measuring element**
Outstanding properties with regard to hysteresis, long-term stability, temperature dependency and repeatability.
- Accuracy and operating range**

	High-quality	Standard
Accuracy	± 2% r.h.	± 5% r.h.
Operating range	0...100 % r.h.	0...95% r.h.
- Certification**
Factory certificate and recalibration service available for all QFA4...types. Specially needed to fulfill recommendations of the pharma and chemical industry.
- Absolute humidity and enthalpy measuring**
With a combined humidity-temperature sensor and the absolute humidity processor (AQF61.1)

Symaro™ H: Humidity

	Type reference	Version		Output				Range	Category				Power supply		Protection	Use / remarks	
		Humidity only	Combi sensor	DC 0...10V	4...20 mA	T1	LG-Ni 1000		Relay contact	Digital	% r. h.	Basic	Standard	High-quality			Certified
Room	QFA2000	●		●				0...95	●	●				●	●	IP30	
	QFA2020		●	●				0...95	●	●				●	●	IP30	
	QFA2040			●				0...95	●	●				●	●	IP30	
	QFA2060		●	●				0...95	●	●				●	●	IP30	
	QFA3100	●		●				0...100		●	●			●	●	IP65	
	QFA3101		●	●				0...100		●	●			●	●	IP65	
	QFA3160		●	●				0...100		●	●			●	●	IP65	
	QFA3171		●	●				0...100		●	●			●	●	IP65	
	QFA4160		●	●				0...100		●	●			●	●	IP65	
QFA4171		●	●				0...100		●	●			●	●	IP65		
Duct	QFM2100	●		●				0...95	●	●				●	●	IP54	Incl. mounting flange
	QFM2101	●		●				0...95	●	●				●	●	IP54	Incl. mounting flange
	QFM2120		●	●				0...95	●	●				●	●	IP54	Incl. mounting flange
	QFM2140		●	●				0...95	●	●				●	●	IP54	Incl. mounting flange
	QFM2160		●	●				0...95	●	●				●	●	IP54	Incl. mounting flange
	QFM2171		●	●				0...95	●	●				●	●	IP54	Incl. mounting flange
	QFM3100	●		●				0...100		●	●			●	●	IP65	Incl. mounting flange
	QFM3101		●	●				0...100		●	●			●	●	IP65	Incl. mounting flange
	QFM3160		●	●				0...100		●	●			●	●	IP65	Incl. mounting flange
	QFM3171		●	●				0...100		●	●			●	●	IP65	Incl. mounting flange
	QFM4160		●	●				0...100		●	●			●	●	IP65	Incl. mounting flange
QFM4171		●	●				0...100		●	●			●	●	IP65	Incl. mounting flange	
Dew point	QFA3100 + AQF3100	●		●				0...100		●	●			●	●	IP65	
	QFA3101 + AQF3100	●		●				0...100		●	●			●	●	IP65	
	QFA3160 + AQF3100		●	●				0...100		●	●			●	●	IP65	
	QFA3171 + AQF3100		●	●				0...100		●	●			●	●	IP65	
Accessory	QXA2000	●						0...100	●					●		IP40	Accessory AQX2000
Hygrostats	QFA1001	●						30...90	●							IP20	Room: Setpoint adjustment
	QFA1000	●						30...90	●							IP20	Room: Setpoint adjustment under the cover
	QFM81.2	●						15...95	●							IP30	Duct: Setpoint adjustment under transparent cover
	QFM81.21	●						15...95	●							IP55	Duct: Setpoint adjustment under transparent cover
Accessories	AQX2000									●						IP20	AC 230 V extension module for QXA2000
	AQF3100										●						Radiation protection for QFA31..
	AQF3101											●					Replacement filter caps
	AQF4150		●					0...100					●				Probe for QFA41.. and QFM41..
	AQF61.1															IP20	Processor for absolute humidity and enthalpy

Symaro™ A: Air quality

	Type reference	Execution			Output				Range	Category		Power supply		Protection	Use / remarks
		CO2	VOC	Temperature	DC 0...10V	Switching	LG-Ni 1000	PT 1000		Display	ppm	Basic	Standard		
Room	QPA63.1	●	●		●				0...2000	●	●			IP30	VOC requires AQP63.1
	QPA63.2	●	●		●				0...2000	●	●			IP30	VOC requires AQP63.1
	QPA84					●								IP30	
Duct	QPA63.1/AUS+ARG64	●	●		●				0...2000	●	●			IP54	VOC requires AQP63.1
	QPA63.2+ARG64	●	●		●				0...2000	●	●			IP54	VOC requires AQP63.1
Accessories	AQP63.1										●			IP40	Processor for ventilation demand
	ARG64										●			IP54	Housing for duct mounting

Symaro™ P: Pressure

	Type reference	Version		Output				Range	Category				Power supply		Protection	Use / remarks		
		Absolut	Differenzial	DC 0...10 V	4...20 mA	Root function	Relay contact		Display	Basic	Standard	High-quality	Certified	AC 24 V			DC 20...30 V	
Air	QBM65-1		●	●				0...100 Pa		●	●			●	●	IP54	Incl. connecting tube	
	QBM65-3		●	●				0...300 Pa		●	●			●	●	IP54	Incl. connecting tube	
	QBM65-5		●	●				0...500 Pa		●	●			●	●	IP54	Incl. connecting tube	
	QBM65-10		●	●				0...1000 Pa		●	●			●	●	IP54	Incl. connecting tube	
	QBM65-25		●	●				0...2500 Pa		●	●			●	●	IP54	Incl. connecting tube	
	QBM65-1U		●	●				-50...+50 Pa		●	●			●	●	IP54	Incl. connecting tube	
	QBM65-1-1		●	●				0...100 Pa		●	●			●	●	IP54	Incl. connecting tube	
	QBM65-1-3		●	●				0...300 Pa		●	●			●	●	IP54	Incl. connecting tube	
	QBM65-1-5		●	●				0...500 Pa		●	●			●	●	IP54	Incl. connecting tube	
	QBM65-1-10		●	●				0...1000 Pa		●	●			●	●	IP54	Incl. connecting tube	
	QBM65-1-25		●	●				0...2500 Pa		●	●			●	●	IP54	Incl. connecting tube	
	QBM65-2-1		●	●				0...100 Pa		●	●			●	●	IP54	Incl. connecting tube	
	QBM65-2-3		●	●				0...300 Pa		●	●			●	●	IP54	Incl. connecting tube	
	QBM65-2-5		●	●				0...500 Pa		●	●			●	●	IP54	Incl. connecting tube	
	QBM65-2-10		●	●				0...1000 Pa		●	●			●	●	IP54	Incl. connecting tube	
	QBM65-2-25		●	●				0...2500 Pa		●	●			●	●	IP54	Incl. connecting tube	
	QBM65-1/C		●	●				0...100 Pa			●			●	●	IP54	Incl. screwed connection	
	QBM65-3/C		●	●				0...300 Pa			●			●	●	IP54	Incl. screwed connection	
	QBM65-10/C		●	●				0...1000 Pa			●			●	●	IP54	Incl. screwed connection	
	QBM65-25/C		●	●				0...2500 Pa			●			●	●	IP54	Incl. screwed connection	
	QBM66.201		●	●				0...100 Pa			●			●	●	IP42	0...200 Pa, 2nd measuring range	
	QBM66.202		●	●				0...250 Pa			●			●	●	IP42	0...500 Pa, 2nd measuring range	
	QBM66.203		●	●				0...1500 Pa			●			●	●	IP42	0...3000 Pa, 2nd measuring range	
	QBM75-1U/C		●	●				-50...+50 Pa			●			●	●	IP42	Incl. screwed connection	
	QBM75-1-1/C		●	●				0...100 Pa			●			●	●	IP42	Incl. screwed connection	
	QBM81-3		●	●				20...300 Pa			●			●	●	IP54	Incl. air duct connection kit	
	QBM81-5		●	●				50...500 Pa			●			●	●	IP54	Incl. air duct connection kit	
	QBM81-10		●	●				100...1000 Pa			●			●	●	IP54	Incl. air duct connection kit	
	Liquids / 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		
QBE61.2-DP0.5			●	●				0...0,5 bar		●				●	●	IP42		
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-DP02		●	●				0...200 mbar		●				●	●	IP65			
QBE63-DP05		●	●				0...500 mbar		●				●	●	IP65			
QBE63-DP1		●	●				0...1 bar		●				●	●	IP65			
QBE64-DP4		●	●				0...4 bar		●				●	●	IP65			
Refrigeration	QBE621-P10U	●		●				-1...+9 bar		●				●	●	IP65		
	QBE621-P25U	●		●				-1...+24 bar		●		</						