sigrist photometer

SiCon XX 40

Modular multi-channel control unit

Advantages

- Centralised, user-friendly control and clear data display for all sensors in one place
- Wide range of device variants for optimum adaptation to a wide variety of application areas
- Maximum flexibility thanks to modular, expandable input and output modules
- Comprehensive communication options, including integrated web server for remote access and system integration
- Individually configurable dashboards for a clear display of measured values and device status
- Convenient visualisation and analysis of historical measurement data and curve progressions
- Easy to integrate even into existing systems, compatible with all Sigrist photometers
- Data logger up to 370 days

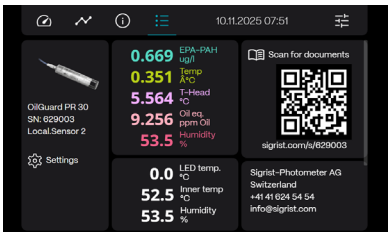
Applications

- Central control unit for Sigrist photometers and various other sensors

Innovations with real benefits

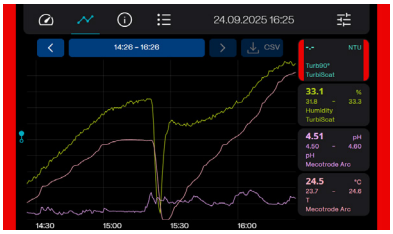
Innovative operation for maximum efficiency

- Modern, intuitive touch control concept and informative data presentation
- 7" screen enables optimal visualisation on four dashboards, each with up to 9 measured values
- Retrievable memory for calibration processes and error messages – warnings & error messages in text form
- Visually striking colour highlighting guarantees maximum attention for warning and error messages
- Operation in different languages



Central measurement data management, data display and sensor control

- Data centre based on the latest processor technology
- Processing of up to 20 measured values, recorded by a maximum of 8 sensors simultaneously
- Various dashboards for measured values, curve progressions and device information
- Integrated data logger for up to 370 days
- Graph display with zoom function and data export
- The most important information always at a glance – thanks to individually configurable dashboards



System integration and integrated security

- The SiCOn XX 40 offers various data interfaces, from analogue outputs to process buses for continuous process monitoring
- Permanent access to measured values and status information
- High flexibility thanks to link modules for connecting additional and different sensors
- Various outputs and communication modules for flexible integration into a process system
- Enhanced data security

SICON – versatile combinations

The SiCon XX 40 is fully compatible with Sigrist photometers and also supports sensors from various manufacturers – for maximum flexibility in use.

	SiCon ST 40	SiCon AD 40	SiCon PM 40
Number of sensors	2	2 or 1 Photometer + up to 4 Hamilton Sonden pH, DO, CON, OR	2, 8 with additional link modules
Link modules (optional interfaces for sensors)	–	1	2
Analogue outputs	4		
Digital inputs and outputs (configurable)	4		
Standard interface (to control system)	1x Ethernet LAN 100 Mbit/s		
Integrated fieldbus:	Modbus TCP / Ethernet		
Optional interfaces (modules)	–	1	1
Optional fieldbus modules:	–	Profibus DP, Modbus RTU, Profinet IO	
USB	for data export, software update		
Relays	2x 30V, 500 mA		
Displayable parameters	8	8	36
Data logger	–	32 days	370 days

Excerpt of technical details

Operating voltage	24 VDC +/– 10%
Power consumption	9 W + sensor power consumption, total: max. 40W
Weight	1.6 kg
Dimensions	271 x 170 x 90 mm
Protection class	IP66
Housing material	Polycarbonate UL 94 V0
Touchscreen material	Soda-lime cover glass
Display	7" colour touchscreen; 1024 x 600 pixels
Ambient temperature	–20 to +50 °C

Full details and technical data:

Technical specifications subject to change Doc. No. 30094E/1

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SiCon XX 40 Technical data

Operating voltage	24 VDC +/– 10% (connected sensors: 24V +/– 10%)
Power consumption	9 W + sensor power consumption, total: max. 40W
Weight	1.6 kg
Housing material	Polycarbonate UL 94 V0
Touchscreen material	Soda-lime cover glass
Dimensions	271 x 170 x 90 mm
Protection class	IP66
Installation location	Indoors
Ambient temperature	–20 to +50 °C
Storage temperature	–30 to +70 °C
Humidity	0 to 95%, non-condensing

Mounting	Wall mounting 4x Ø 4mm screw, optional mounting feet. Optional pipe mounting Ø 50 ... 70 mm or Ø 32 ... 50 mm
Display	
Display	Colour touchscreen
Operation	Capacitive touch
Resolution	1024 x 600 px; 7» diagonal
Cable bushings	2x 6–12mm; 4...12x 4–8mm

	SiCon ST 40	SiCon AD 40	SiCon PM 40
Number of sensors	max. 2	2 or 1 Photometer + up to 4 Hamilton Sonden pH, DO, CON, OR	2, max. 8 with additional link modules
RS485 connections (Sigrist photometer)	2 (115200 Baud)	2 (115200 Baud)	2 (115200 Baud)
Link modules (optional interfaces for sensors)	–	RS485 passive hub or analogue current inputs; (four interfaces each)	RS485, LAN, analogue current inputs; (four interfaces each)
Number of link modules	–	1	2
Analogue outputs	4		
Digital inputs and outputs (configurable)	4		
Standard interface (to the control system)	1x Ethernet LAN 100 Mbit/s		
Integrated fieldbus:	Modbus TCP / Ethernet		
Optional interfaces (modules)	–	1	1
Profibus DP communication module	–	optional	optional
Profinet IO communication module	–	optional	optional
IO communication module (Modbus RTU + analogue IO)	–	optional	optional
USB	Typ A, 2.0	Typ A, 2.0	Typ A, 2.0
USB	for data export, software update	for data export, software update	for data export, software update
Relay	2x 30V, 500 mA, freely configurable	2x 30V, 500 mA, freely configurable	2x 30V, 500 mA, freely configurable

Protocol support	Profibus DP	–	optional	optional
	Profinet IO	–	optional	optional
	Modbus RTU	–	optional	optional
	Modbus TCP	yes		
	Local operating interface	touch display		
	Operating interface (remote access)	web browser (TCP/IP)		

Data logger	–	32 days	370 days

Dashboards	Displayable parameters	8	8	36
	Number of dashboards	2	2	4
	Measured value per dashboard	max. 4 (1, 4)	max. 4 (1, 4)	max. 9 (1, 4, 6, 8, 9)

Chart display	no	yes	yes
		2 pages, 4 curves each	2 pages, 4 curves each

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