

Compressed Air Management System

SIGMA AIR MANAGER[®] 4.0

Compressed air station core intelligence

kaeser.com

SIGMA AIR MANAGER[®] 4.0

Optimum efficiency

Adaptive, efficient and networked: demand-oriented compressed air management takes on a whole new meaning with the SIGMA AIR MANAGER 4.0. This advanced controller coordinates operation of multiple compressors and dryers, blowers or vacuum pumps. Our patented simulation-based optimization process calculates future demand based on past compressed air consumption profiles and dynamic real time response to create a superior combination of reliable flow and pressure with low energy usage. Comprehensive monitoring and predictive maintenance are made possible via the secure KAESER SIGMA NETWORK to minimize downtime.

Monitoring and reporting

The SIGMA AIR MANAGER (SAM) 4.0 enables comprehensive compressed air station monitoring through the recording, archiving and visualization of operating data. Complete station parameter tracking means that faults can be detected early on and rectified immediately. Moreover, the SAM 4.0 actively supports energy management in accordance with ISO 550001. The necessary figures and data are automatically output, evaluated and made available as a report.

Availability and maintenance

The SIGMA AIR MANAGER 4.0 provides active support for organization of service activities. Compressed air station operating data are recorded, which ensures a permanent overview of system maintenance status. Service intervals can therefore be planned and optimized from a future-forward perspective. In addition, all plain text messages from the connected compressors can be viewed in the message history, making it easy to track system status at any time.



Networking and communication

The SIGMA AIR MANAGER 4.0 enables complete compressed air station digitalization. As the central node point, it connects all station components via the secure KAESER SIGMA NETWORK. Operating data from compressors and dryers, blowers, vacuum pumps and KAESER Measurement Technology sensors are collected centrally and can be integrated into the existing control technology. The advantage? Information is exchanged in real-time to assure continuous energy and cost optimization combined with seamless production flow.

Capacity and utilization

The SIGMA AIR MANAGER 4.0 is designed to grow with your compressed air station. A simple software upgrade allows expansion of the master controller with the need for additional investment in new hardware. Therefore, with a software upgrade, a SAM 4.0 initially capable of controlling only up to four compressors can be updated to control up to eight, or even sixteen, compressors. Accordingly, capacity can easily be adapted to suit actual requirement.

User-friendly operation

Advanced, capacitive touch technology, offset supplementary keys and durable LED illumination make the SIGMA AIR MANAGER 4.0 an exceptionally user-friendly tool, and not just on the haptic level, but also on a global one, since it supports 34 languages.



What's on the inside. What's in it for you.

KAESER SIGMA NETWORK

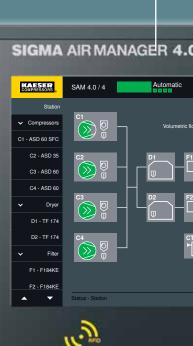
Safe and secure network.

All of the compressor station's components can be seamlessly integrated into the KAESER SIGMA NETWORK.

Upgrade your compressed air system

Future-dynamic: SIGMA AIR MANAGER 4.0 grows with you.

A simple software upgrade is all that's required to expand your compressed air system to meet future demand. Software updates ensure constant optimization.



Adaptive 3D^{advanced} Control

Optimum efficiency.

With the patented simulation-based optimization process, you can achieve the most efficient performance solution from various potential options. The result? More compressed air for less energy.



Secure login.

The integrated RFID interface ensures secure login for authorized personnel - without the need for passwords.

Live P&I diagram

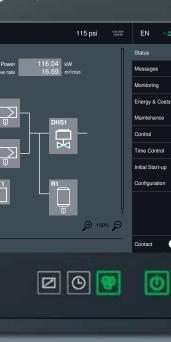
Everything at a glance.

Your entire compressed air station represented as a flow diagram on a 12-inch display, or on your computer and network-compatible devices.

Industrial Internet of Things (IIOT)

Communication & data exchange in real-time.

The SIGMA AIR MANAGER 4.0 master controller allows KAESER to take full advantage of the very latest digital information technology and provides complete component networking capability. The advantage: real-time data exchange for continuous optimization of energy and costs, combined with seamless production flow.



Energy management per ISO 50001

Your energy report quickly and easily.

The SIGMA AIR MANAGER 4.0 is your perfect partner for operating data storage and provides data in accordance with ISO 50001.

Variable bus communication

All common interfaces.

All common interfaces are available with the help of the optional plug-in communication module.

Always connected with KAESER: Ethernet IP, – OPC UA, either option available. We have tomorrow's needs covered too.

Thanks to Plug & Play, the future is just a plug-in connection away.

KAESER CONNECT

Operation, consumption and cost overview. Anytime, anywhere.

All operational and energy consumption data, as well as cost information, can be called up on any network-compatible device anytime, anywhere.

SIGMA AIR MANAGER[®] 4.0

Maintenance / availability

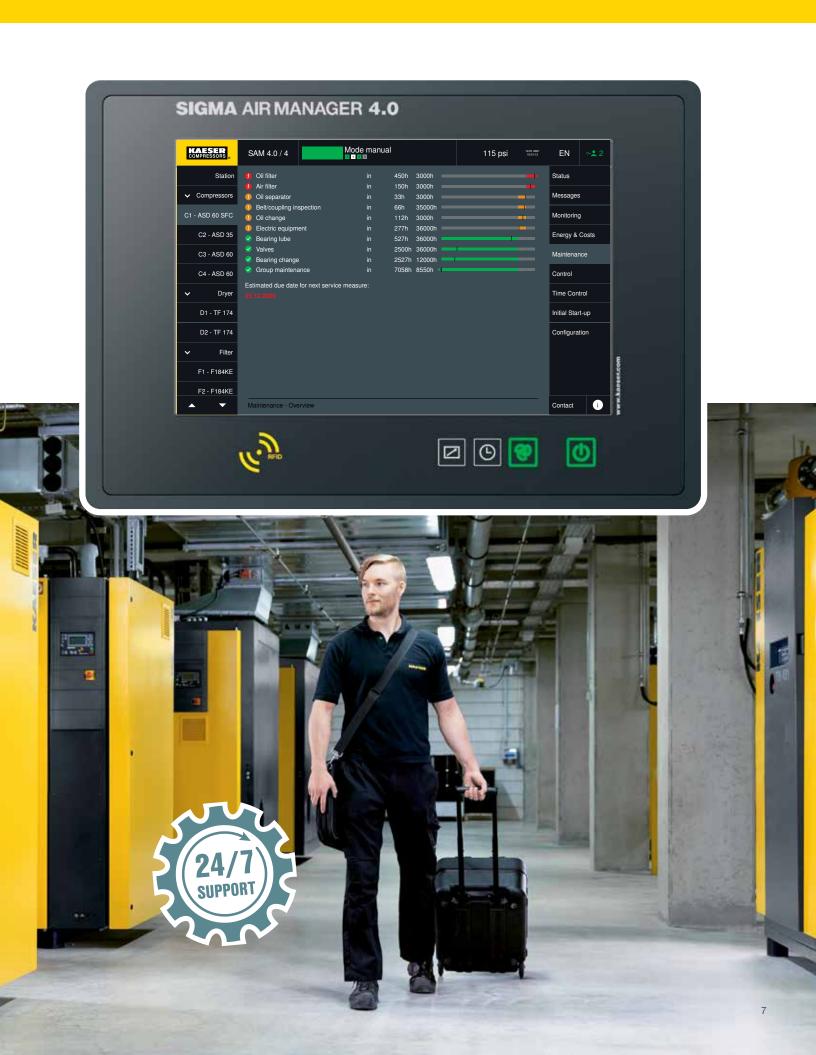
In order to simplify system maintenance, the SIGMA AIR MANAGER 4.0 menu has been expanded to include a "Maintenance" section. This new function allows you to view the maintenance hours counters for the compressors. Counter readings can be called up live, or sent by means of an automatically generated report.

This facilitates predictive planning of maintenance tasks, for a time convenient to your processes. The SIGMA AIR MANGER 4.0 always loads compressors within a maintenance group evenly, which also has the beneficial effect of ensuring that the

maintenance hours for the corresponding systems are evenly distributed. This means that maintenance can be performed on these systems on the same day, or as one job. Maintenance measures can therefore be planned more easily and can be scheduled for non-operating times.

Furthermore, all plain text messages for compressors connected via the SIGMA NETWORK can be viewed in the message history, making it easy to track system status at any time.





SIGMA AIR MANAGER® 4.0

Energy costs and reporting

Systematic energy management increases the efficiency of the entire compressed air station, thereby reducing both energy consumption and the associated greenhouse gas emissions. This maximized efficiency is reflected in minimized costs.

The SIGMA AIR MANAGER 4.0 from KAESER COMPRESSOR records, archives and processes the station's operating data and actively supports you with your energy management activities as per ISO 50001. The required key figures – such as delivery volume, specific package input power and energy consumption – are automatically provided at a freely selectable time interval. This enables comprehensive energy performance analysis.

Evaluation of the collected data is sent to a mobile phone, laptop or tablet for browser-based viewing. The SIGMA AIR MANAGER 4.0 automatically creates the reports required for ISO 50001 certification, thereby providing comprehensive documentation relating to energy savings.

The reports are directly available via KAESER CONNECT and it is also possible to have all relevant information automatically sent to you by email. Furthermore, the CSV data download guarantees individual subsequent processing of the measurement data.

Energy data at a glance

Data preselection allows you to view all key information quickly and easily.

MAISSER	SM 4074	4	onate.				ţ	0 pe
v Enternant	Black 5449-2529	diam	-	Ent Of	-	-2.00	ici Aust	
C1-400-00190								
CT.480.10			-	100	1001	Desig 10	0014	
100.0			On Inel	100				114
C3-450 6F			2408.00	CR276	Descis	200 11	1.121	111
			1073.54		845.20	38.00		-
Ce-450.91	60 64		0 M 10 M M		1071.03	240.13		14
	Constrained in pr	-	1000				EU.	-
			-	1017.00	10781 H		0.57	C
		-	-		80007 er*	-		
	÷		estera:			-		



Accessible anytime, anywhere via KAESER CONNECT.



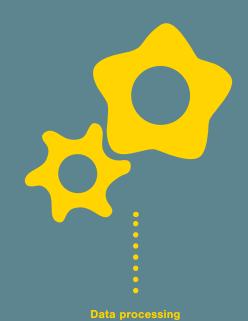


View time periods individually

Would you like to compare individual days, weeks or any period of time? No problem – the SIGMA AIR MANAGER 4.0 takes care of it.









Priorities in focu

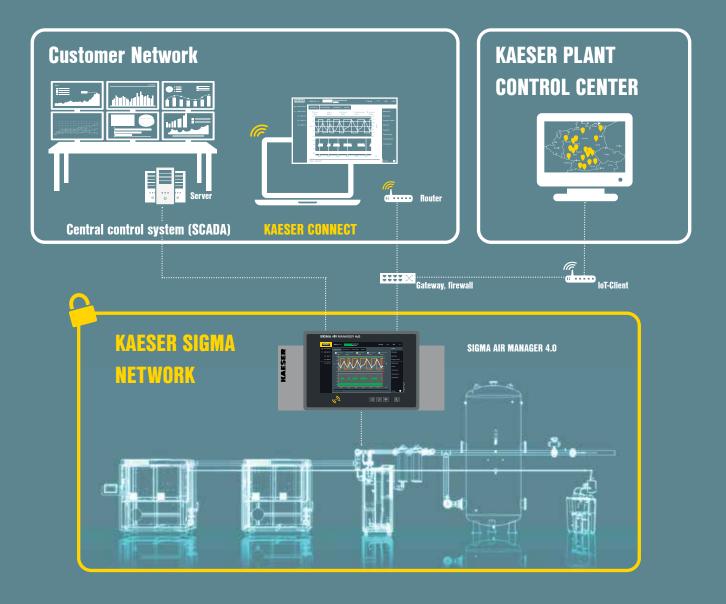
Clear menu layout ensures intuitive navigation to provide a comprehensive overview of your compressed air system with maximum ease.



Tailored range of services

Tailored to your exact needs, the SIGMA AIR MANAGER 4.0 from KAESER includes everything you need for smooth and efficient operation of your compressed air station.





SIGMA AIR MANAGER[®] 4.0

Communication / networking

Compressed air station digitalization enhances efficiency and increases reliability. Because all station components are in constant communication with one other, any performance deviations can be detected at an early stage and be addressed as necessary. The SIGMA AIR MANAGER 4.0 connects every component within the compressed air station – including external components – via the secure, IP-based KAESER SIGMA NETWORK. As the central node point, it gathers the individual operating data and forwards them to mobile phones, laptops or tablets for browser-based viewing via KAESER CONNECT. This not only provides you with comprehensive station monitoring, but also enables operating data to be integrated into existing control technology. Flexible interface modules ensure easy on-site plug and play connection, which means that you always have excellent oversight of your production process and can react in good time as needed.

Monitoring

Comprehensive monitoring of your compressed air station saves you both time and money, since any deviation that remains undetected can quickly become an issue. Even small changes can result in increased energy consumption and higher maintenance costs.

The SIGMA AIR MANAGER 4.0 from KAESER COMPRESSOR records, archives and visualizes the operating data for every component in the compressed air station that is connected to the SIGMA NETWORK. This enables comprehensive monitoring of station parameters, both in real-time and over an extended period. The ability to export measurement values as a CSV (Comma-Separated Values) file makes evaluation simple. Fault messages can be sent to a laptop, mobile phone or tablet for browser-based viewing. This allows any faults to be identified in good time and resolved immediately, ensuring efficient and reliable compressed air station operation.



Applying SIGMA AIR MANAGER 4.0

SAM 4.0 is your round-the-clock compressed air expert-a simple solution to ensure optimum performance and record detailed information to inform your operational decisions.

Compressed air usage frequently changes in the dynamic production environment and simply purchasing efficient compressors won't ensure long term efficiency and reliability. A master controller is necessary to continually optimize the operation of the compressors. Further, compressed air is one of your largest utility costs yet, you probably have very little detail on how it is used and how efficiently you are creating it. With SAM 4.0, you have detailed data on your use of compressed air and the cost of making it. SAM 4.0 gives you insight into the ongoing energy costs that you can tie to production costs overall. Without the SAM 4.0, it is easy to lose sight of the high cost of compressed air and how production changes have impacted your system performance.

Benefits of Applying SAM 4.0

- 1. Reduce the initial costs for new projects and expansions by up to 20%.
- 2. Increase the productivity of your facility by creating greater flexibility and lowering redundancy costs.
- 3. Provide real time monitoring of your system both locally and remotely.
- 4. Provide detailed historical air demand information allowing for simple and accurate expansion planning as well as operating cost changes.



Optimizing system design with SAM 4.0

Reduce initial costs and increase productivity: SAM 4.0 eliminates the need for costly frequency drive compressors to provide peak efficiency. A SAM 4.0 installation replaces single large unit systems with multiple smaller unit systems providing for greater productivity, inherent redundancy and lower costs for expansion.

Reduce operational costs: SAM 4.0 manages both the flow and pressure of your system. This allows you to operate your system at the minimum pressure necessary to meet the demands of production. Operational costs are saved as compressors operate more efficiently at lower pressure and artificial demand from leaks and unregulated uses are reduced.

Real time monitoring: The connectivity options available with a SAM 4.0 installation allows for real time system monitoring and evaluation of alarms from any authorized laptop. One key advantage to this feature is the ability to diagnose issues remotely reducing the frequency of late night trips back to your facility.

Historical performance: The detailed information the SAM 4.0 provides you will feed more knowledgeable decision-making. For example:

- Changes in production and their effect on compressed air consumption and costs. Are there expensive inappropriate uses of compressed air? How has your compressed air leak load changed over time?
- Allocation of unit production costs. Generally compressed air is the single largest contributor to your overall energy costs yet without SAM 4.0, it's difficult to track your real costs. Knowing how your compressed air system changes when production changes can help you better allocate costs within your organization.

How SAM 4.0 reduces costs

System Design	Option 1: Single 125 hp Variable Frequency Drive Compressor	Option 2: 2 x 60 hp Fixed Speed Compressors with SAM 4.0	Option 3: 75 hp Variable Frequency Drive and 40 hp Fixed Speed Compressors with SAM 4.0	
Annual Energy Cost (1)	\$45,444	\$49,492	\$44,239	
Peak Power	93.74 kW	95.97 kW	89.73 kW	
System Specific Power	17.60 kW/100 cfm	19.21 kW/100 cfm	17.14 kW/100 cfm	
Footprint ⁽²⁾	348 ft²	425 ft²	415 ft²	
Recommended System Storage ⁽³⁾	3,000 gal.	1,440 gal.	1,775 gal.	
Equipment Cost	\$90,000	\$75,000	\$90,000	
Redundancy ⁽⁴⁾	0%	50%	30%	
Cost for Growth or Backup ⁽⁵⁾	\$90,000	\$34,000	\$55,000	
Annual Parts Cost ⁽⁶⁾	\$4,000	\$2,100	\$4,825	
5-Year Life Cycle Cost	\$337,220	\$332,960	\$335,318	

(1) Assuming a typical industrial compressed air system with a max flow of 500 cfm, average of 280 cfm and minimum flow of 125 cfm. Operating 24/7 at 100 psig with a power cost of \$0.10/kWh.

(2) Footprint: Includes the necessary area for compressors, storage, air treatment, and ventilation with sufficient clearance for maintenance.

(3) Recommended system storage: Based on the Compressed Air Challenge guideline of 5 gallons per cfm of the largest compressor.

(4) Redundancy: Compressed air system capacity if a single unit fails.

(5) Cost for growth: Cost for an additional compressor to create 100% redundancy.

(6) Annual parts cost: Preventive maintenance filters and oil based on 8,760 hours a year and the system profile described above.



Option 1: smallest footprint, but most expensive and offers no redundancy



Option 2: lowest initial equipment cost and annual parts cost, offers redundancy, lowest 5-year life cycle costs, but not as efficient as option 3



Option 3: most efficient and offers some redundancy

Durable, easy-to-use touchscreen



Advanced, capacitive touch technology, offset supplementary keys and durable LED illumination make the SIGMA AIR MANAGER 4.0

an exceptionally user-friendly tool, and not just on the haptic level, but also on a global one, since it supports 34 languages.



SIGMA AIR MANAGER® 4.0

Technical specification

Adaptive 3-Dreamed Control Standard Adaptive 3-Dreamed Control Coptional Flow rate control (for blowers) Coptional Sossible air system interconnections 4 8 16 Compressors with SIGMA CONTROL 2 via SIGMA NETWORK 4 8 16 SNW ports RJ 45 Standard (E ports, optional) Social (E ports, optional) Social (E ports, optional) SNW ports RJ 45/FOC (Fiber Optic Cable) Coptional Coptional Social (E ports, optional) SNW ports RJ 45/FOC (Fiber Optic Cable) Coptional Coptional Social (E ports, optional) SNW ports RJ 45/FOC (Fiber Optic Cable) Coptional Social (E ports, optional) Social (E ports, optional) SNW ports RJ 45/FOC (Fiber Optic Cable) Coptional Social (E ports, optional) Socian (E ports, optional) Socian		SIGMA AIR MANAGER 4.0 - 4	SIGMA AIR MANAGER 4.0 - 8	SIGMA AIR MANAGER 4.0 - 16		
Flow rate control (for blowers) Optional Possible air system interconnections Total number of controllable compressors/blowers 4 8 16 Compressors with SIGMA CONTROL 2 via SIGMA NETWORK 4 6 6 SNW ports RJ 45 Standard (= ports, optional)	Controller and control modes					
Possible air system interconnections Total number of controllable compressors/blowers 4 8 16 Compressors with SIGMA CONTROL 2 via SIGMA NETWORK 4 6 6 SNW ports RJ 45 Standard (6 ports, optionally expandable) SNW ports RJ 45 / DSL (2/4-wire copper cable) Optional V SNW Ports RJ 45 / DSL (2/4-wire copper cable) Optional V SNW Ports RJ 45 / DSL (2/4-wire copper cable) Optional V SNW Ports RJ 45 / DSL (2/4-wire copper cable) Optional V SNW Ports RJ 45 / DSL (2/4-wire copper cable) Optional V SNW Ports RJ 45 / DSL (2/4-wire copper cable) Optional V SNW Ports RJ 45 / DSL (2/4-wire copper cable) Optional V SNW Ports RJ 45 / DSL (2/4-wire copper cable) Optional V SNW Ports RJ 45 / DSL (2/4-wire copper cable) Optional V SNW Ports RJ 45 / DSL (2/4-wire copper cable) S(optionally expandable) Available input signals 6 (optionally expandable) V Analog 4-20 mA (e.g. pressure dew point measuring device, pressure tanaducer S (optionally expandable) V Relay outputs (e.g. thid party compressors, compressors with SIGMA CONT	Adaptive 3-D ^{advanced} Control		Standard			
Total number of controllable compressors/blowers 4 8 16 Compressors with SIGMA CONTROL 2 via SIGMA NETWORK 4 6 6 SNW ports RJ 45 Standard (© orts, optionally expandable) Standard (© orts, optionally expandable) SNW ports RJ 45 / FOC (Fiber Optic Cable) Optional Optional SNW ports RJ 45 / DSL (2/4-wire copper cable) Optional Optional SNW Ports RJ 45 / DSL (2/4-wire copper cable) Optional Optional SNW Ports RJ 45 / DSL (2/4-wire copper cable) Optional Optional SNW Ports RJ 45 / DSL (2/4-wire copper cable) Optional Optional SNW Ports RJ 45 / DSL (2/4-wire copper cable) Optional Vector SNW Ports RJ 45 / DSL (2/4-wire copper cable) Optional Vector SNW Ports RJ 46 / ODC (e.g. ECO-DRAIN, compressors without SIGMA CONTROL, remote Network) 6 (optionally expandable) Available output signals 6 (optionally expandable) Vector Reley outputs 6 (optionally expandable) Standard (e.g. third party compressors, compressors with SIGMA CONTROL Basic, group alarm) Standard Standard Operating data long-term memory 1 year	Flow rate control (for blowers)	Optional				
Compressors with SIGMA CONTROL 2 via SIGMA NETWORK466SNW ports RJ 45Standard (6 ports, optionally expandable)SNW ports RJ 45/FOC (Fiber Optic Cable)C-UPtional	Possible air system interconnections					
SNW ports RJ 45 Standard (6 ports, optionally expandable) SNW ports RJ 45/FOC (Fiber Optic Cable) Optional SNW ports RJ 45 / DSL (2/4-wire copper cable) Optional SNW Ports RJ 45 / DSL (2/4-wire copper cable) Optional SNW Ports RJ 45 with PoE (Fower over Ethernet) Optional Available input signals Optional Digital 24V DC (e.g. ECO-DRAIN, compressors without SIGMA CONTROL, remote ON-OFF) 6 (optionally expandable) Analog 4-20 mA (e.g. pressure dew point measuring device, pressure transducer) 4 (optionally expandable) Available output signals 5 (optionally expandable) Eduipment 5 (optionally expandable) Visualization via integrated web server Standard Operating data long-term memory 1 year Standard Pressure transducer Standard Gigabit Ethernet for remote visualization (web server) Standard Slot for communications module (e.g. PROFIBUS, Modbus TCP, Ethernet/IP, OC CUA) Standard SD HC/XC card slot (e.g. updates) Standard Dimensions, weight 21 1/4" x 11 3/16" x 19"	Total number of controllable compressors/blowers	4	8	16		
SNW ports RJ 45/FOC (Fiber Optic Cable) Optional SNW ports RJ 45 / DSL (2/4-wire copper cable) Optional SNW Ports RJ 45 / DSL (2/4-wire copper cable) Optional SNW Ports RJ 45 with PoE (Power over Ethernet) Optional Available input signals Digital 24V DC (e.g. ECO-DRAIN, compressors without SIGMA CONTROL, remote ON-OFF) 6 (optionally expandable) Analog 4-20 mA (e.g. pressure dew point measuring device, pressure transducer) 4 (optionally expandable) Available output signals 5 (optionally expandable) Relay outputs (e.g. third party compressors, compressors with SIGMA CONTROL Basic, group alarm) 5 (optionally expandable) Equipment Standard Visualization via integrated web server Standard Operating data long-term memory 1 year Standard Pressure transducer Standard Operating data long-term memory 1 year Standard Operating data long-term memory 1 Year Standard <td>Compressors with SIGMA CONTROL 2 via SIGMA NETWORK</td> <td>4</td> <td>6</td> <td>6</td>	Compressors with SIGMA CONTROL 2 via SIGMA NETWORK	4	6	6		
SNW ports RJ 45 / DSL (2/4-wire copper cable) Optional SNW Ports RJ 45 with PoE (Power over Ethernet) Optional Available input signals Digital 24V DC (e.g. ECO-DRAIN, compressors without SIGMA CONTROL, remote ON-OFF) 6 (optionally expandable) Analog 4-20 mA (e.g. pressure dew point measuring device, pressure transducer) 4 (optionally expandable) Available output signals 4 (optionally expandable) Relay outputs (e.g. third party compressors, compressors with SIGMA CONTROL Basic, group alarm) 5 (optionally expandable) Equipment Standard Visualization via integrated web server Standard Operating data long-term memory 1 year Standard Pressure transducer Standard Stot for communications interfaces Standard Gigabit Ethernet for remote visualization (web server) Standard Stot for communications module (e.g. PROFIBUS, Modbus TCP, Ethernet/IP, OPC UA) Standard Stot for communications module (e.g. PROFIBUS, Modbus TCP, Ethernet/IP, OPC UA) Standard DIMENSIONS, weight Standard	SNW ports RJ 45	Standard (6 ports, optionally expandable)				
SNW Ports RJ 45 with PoE (Power over Ethernet) Optional Available input signals Digital 24V DC (e.g. ECO-DRAIN, compressors without SIGMA CONTROL, remote Oh-OFF) 6 (optionally expandable) Analog 4-20 mA (e.g. pressure dew point measuring device, pressure transducer) 4 (optionally expandable) Available output signals 4 (optionally expandable) Available output signals 5 (optionally expandable) Relay outputs (e.g. third party compressors, compressors with SIGMA CONTROL Basic, group alarm) 5 (optionally expandable) Equipment Standard Visualization via integrated web server Standard Operating data long-term memory 1 year Standard Pressure transducer Standard Stol for communications interfaces Standard Sol for communications module (e.g. PROFIBUS, Modbus TCP, Ethernet/IP, OPC UA) Standard SD HC/XC card slot (e.g. updates) Standard Dimensions, weight 21 1/4" x 11 3/16" x 19"	SNW ports RJ 45/FOC (Fiber Optic Cable)	Optional				
Available input signals Available input signals Digital 24V DC (e.g. ECO-DRAIN, compressors without SIGMA CONTROL, remote ON-OFF) 6 (optionally expandable) Analog 4-20 mA (e.g. pressure dew point measuring device, pressure transducer) 4 (optionally expandable) Available output signals 4 (optionally expandable) Relay outputs 5 (optionally expandable) group alarm) 5 (optionally expandable) Equipment 5 (optionally expandable) Visualization via integrated web server Standard Operating data long-term memory 1 year Standard Pressure transducer Standard Stot for communications interfaces Standard Stot for communications module (e.g. PROFIBUS, Modbus TCP, Ethermet/IP, OPC UA) Standard SD HC/XC card slot (e.g. updates) Standard Dimensions, weight 21 1/4" x 11 3/16" x 19"	SNW ports RJ 45 / DSL (2/4-wire copper cable)	Optional				
Digital 24V DC (e.g. ECO-DRAIN, compressors without SIGMA CONTROL, remote ON-OFF) 6 (optionally expandable) Analog 4-20 mA (e.g. pressure dew point measuring device, pressure transducer) 4 (optionally expandable) Available output signals 4 (optionally expandable) Relay outputs (e.g. third party compressors, compressors with SIGMA CONTROL Basic, group alarm) 5 (optionally expandable) Equipment 5 (optionally expandable) Visualization via integrated web server Standard Operating data long-term memory 1 year Standard Pressure transducer Standard Communications interfaces Standard Slot for communications module (e.g. PROFIBUS, Modbus TCP, Ethernet/IP, OPC UA) Standard SD HC/XC card slot (e.g. updates) Standard Dimensions, weight 21 1/4" x 11 3/16" x 19"	SNW Ports RJ 45 with PoE (Power over Ethernet)	Optional				
remote ON-OFF) 6 (optionally expandable) Analog 4-20 mA (e.g. pressure dew point measuring device, pressure transducer) 4 (optionally expandable) Available output signals 4 (optionally expandable) Relay outputs 5 (optionally expandable) (e.g. third party compressors, compressors with SIGMA CONTROL Basic, group alarm) 5 (optionally expandable) Equipment Visualization via integrated web server Standard Operating data long-term memory 1 year Standard Standard Pressure transducer Standard Standard Gigabit Ethernet for remote visualization (web server) Standard Standard Slot for communications module (e.g. PROFIBUS, Modbus TCP, Ethernet/IP, OPC UA) Standard Standard Dimensions, weight Uith x Depth x Height 21 1/4" x 11 3/16" x 19"	Available input signals					
transducer) 4 (optionality expandable) Available output signals Relay outputs (e.g. third party compressors, compressors with SIGMA CONTROL Basic, group alarm) 5 (optionally expandable) Equipment Visualization via integrated web server Standard Operating data long-term memory 1 year Standard Pressure transducer Standard Communications interfaces Standard Gigabit Ethernet for remote visualization (web server) Standard Slot for communications module (e.g. PROFIBUS, Modbus TCP, Ethernet/IP, OPC UA) Standard Dimensions, weight Dimensions, weight Width x Depth x Height 21 1/4" x 11 3/16" x 19"	remote ON-OFF)	6 (optionally expandable)				
Relay outputs 5 (optionally expandable) group alarm) 5 (optionally expandable) Equipment Standard Visualization via integrated web server Standard Operating data long-term memory 1 year Standard Pressure transducer Standard Communications interfaces Standard Slot for communications module (e.g. PROFIBUS, Modbus TCP, Ethernet/IP, OPC UA) Standard SD HC/XC card slot (e.g. updates) Standard Dimensions, weight 21 1/4" x 11 3/16" x 19"		4 (optionally expandable)				
(e.g. third party compressors, compressors with SIGMA CONTROL Basic, group alarm) 5 (optionally expandable) Equipment Standard Visualization via integrated web server Standard Operating data long-term memory 1 year Standard Pressure transducer Standard Communications interfaces Standard Gigabit Ethernet for remote visualization (web server) Standard Slot for communications module (e.g. PROFIBUS, Modbus TCP, Ethernet/IP, OPC UA) Standard SD HC/XC card slot (e.g. updates) Standard Dimensions, weight 21 1/4" x 11 3/16" x 19"	Available output signals					
Visualization via integrated web server Standard Operating data long-term memory 1 year Standard Pressure transducer Standard Communications interfaces Standard Gigabit Ethernet for remote visualization (web server) Standard Slot for communications module (e.g. PROFIBUS, Modbus TCP, Ethernet/IP, OPC UA) Standard SD HC/XC card slot (e.g. updates) Standard Dimensions, weight 21 1/4" x 11 3/16" x 19"	(e.g. third party compressors, compressors with SIGMA CONTROL Basic,	5 (optionally expandable)				
Operating data long-term memory 1 year Standard Pressure transducer Standard Communications interfaces Standard Gigabit Ethernet for remote visualization (web server) Standard Slot for communications module (e.g. PROFIBUS, Modbus TCP, Ethernet/IP, OPC UA) Standard SD HC/XC card slot (e.g. updates) Standard Dimensions, weight 21 1/4" x 11 3/16" x 19"	Equipment					
Pressure transducer Standard Communications interfaces Standard Gigabit Ethernet for remote visualization (web server) Standard Slot for communications module (e.g. PROFIBUS, Modbus TCP, Ethernet/IP, OPC UA) Standard SD HC/XC card slot (e.g. updates) Standard Dimensions, weight 21 1/4" x 11 3/16" x 19"	Visualization via integrated web server	Standard				
Communications interfaces Gigabit Ethernet for remote visualization (web server) Standard Slot for communications module (e.g. PROFIBUS, Modbus TCP, Ethernet/IP, OPC UA) Standard SD HC/XC card slot (e.g. updates) Standard Dimensions, weight 21 1/4" x 11 3/16" x 19"	Operating data long-term memory 1 year	Standard				
Gigabit Ethernet for remote visualization (web server) Standard Slot for communications module (e.g. PROFIBUS, Modbus TCP, Ethernet/IP, OPC UA) Standard SD HC/XC card slot (e.g. updates) Standard Dimensions, weight 21 1/4" x 11 3/16" x 19"	Pressure transducer	Standard				
Slot for communications module (e.g. PROFIBUS, Modbus TCP, Ethernet/IP, OPC UA) Standard SD HC/XC card slot (e.g. updates) Standard Dimensions, weight 21 1/4" x 11 3/16" x 19"	Communications interfaces					
OPC UA) Standard SD HC/XC card slot (e.g. updates) Standard Dimensions, weight 21 1/4" x 11 3/16" x 19"	Gigabit Ethernet for remote visualization (web server)	Standard				
Dimensions, weight Width x Depth x Height 21 1/4" x 11 3/16" x 19"		Standard				
Width x Depth x Height 21 1/4" x 11 3/16" x 19"	SD HC/XC card slot (e.g. updates)	Standard				
	Dimensions, weight					
Weight 44.1 lbs	Width x Depth x Height	21 1/4" x 11 3/16" x 19"				
	Weight	44.1 lbs				

The world is our home

As one of the world's largest compressed air systems providers and compressor manufacturers, KAESER COMPRESSORS is represented throughout the world by a comprehensive network of branches, subsidiary companies and factory trained partners.

With innovative products and services, KAESER COMPRESSORS' experienced consultants and engineers help customers to enhance their competitive edge by working in close partnership to develop progressive system concepts that continuously push the boundaries of performance and compressed air efficiency. Every KAESER customer benefits from the decades of knowledge and experience gained from hundreds of thousands of installations worldwide and over ten thousand formal compressed air system audits.

These advantages, coupled with KAESER's worldwide service organization, ensure that our compressed air products and systems deliver superior performance with maximum uptime.





Built for a lifetime.

Kaeser Compressors, Inc. 511 Sigma Drive Fredericksburg, VA 22408 USA Telephone: 540-898-5500 Toll Free: 800-777-7873 info.usa@kaeser.com



Kaeser Compressors Canada Inc. 3760 La Vérendrve Street Boisbriand, QC J7H 1R5 CANADA Telephone: (450) 971-1414 Toll free: (800) 477-1416 info.canada@kaeser.com











Kaeser Compresores de Guatemala y Cia. Ltda. 3a calle 6-51, zona 13 Colonia Pomplona 01013-Guatemala City Telephone: +502 2412-6000 info.guatemala@kaeser.com

www.kaeser.com