

SIGMA AIR MANAGER 4.0



Technology of tomorrow today

Industry 4.0 - Internet of Things, looking ahead and knowing today what tomorrow will bring, networking components and using data to one's own advantage to a much greater extent than before: the Sigma Air Manager 4.0 (SAM 4.0) makes it possible and ensures energy cost savings with reliable, safe and efficient compressed air generation at the same time.



SAM 4.0, the cross-machine control system for all compressed air generation and treatment components, presents itself in the next generation. Among other things, it optimizes the pressure quality, automatically adjusts the delivery rate of the compressed air station in the event of fluctuating pressure loss, comprehensively optimizes energy efficiency on the basis of control losses, switching losses, pressure flexibility and makes your compressed air station fit for future services such as Sigma Smart Air, a predictive maintenance service. All this increases operational reliability and efficiency while reducing energy costs.

When machines „talk“

SAM 4.0 can be operated in 30 languages and the easy-to-use 12-inch touch-screen color display immediately shows at a glance whether the station is in the "green zone" in terms of energy. Operating states, pressure curve, delivery quantity and output as well as maintenance and possible fault messages for the current point in time and of course also retrospectively, can be easily displayed and analyzed.

Highest possible pressure quality that meets the demand

This is made possible, among other things, by the adaptive 3-D advanced algorithm. This not only takes switching losses (start/stop) into account. It also takes into account other dimensions that influence the energy efficiency of a compressed air system, such as control losses, losses in no-load operation, operation at the frequency converter, and pressure flexibility (average increase above the required pressure). The patented optimization procedure simulates the achievable optimum in advance and controls the connected components accordingly. The user's demand pressure is the decisive factor here.

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