Air Management System New Sustainability – Condition Based Maintenance - Digitalization

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Residual pressure

Secondary air supply or exhaust

relief valve

Wireless adapter (Optional Accessories)

(shut-off) switching

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SINC III III

Standby regulator

Switch pressure between operation and standby

Air management hub

Flow rate, pressure, and temperature sensing

Air consumption: Max. 62%^{*1} reduction

*1 In SMC conditions: Maximum reduction ratio within product specifications (at 0.7 MPa operating pressure and 0.2 MPa low pressure)

Monitors the machine standby conditions (when production stops) and automatically decreases the pressure. Reduces unnecessary air consumption

Compatible with р. **2**

Direct connection enables data communications.

Compatible with

Compatible with wireless systems **p.3**

- Communication cables not required
- High security thanks to unique encryption
- Communication distance: Max. 100 m

AMS20/30/40/60 Series







For more information contact:

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Why not reduce the wasted air generated by your factory equipment?

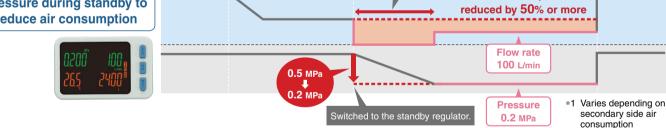






Leakage from cylinder due to worn seals

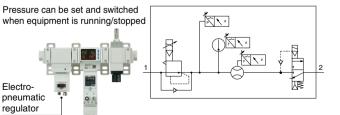
Blow and purge consumption required for functionality. Leakage from piping connection due to aging Reduced air consumption due to lower pressure during production stoppages/equipment standby Standby mode Under equipment operating conditions: Pressure 0.5 MPa, air consumption 1800 L/min and idle air consumption 200 L/min, Example then Standby Mode can apply low pressure setting 0.2 MPa to equipment. Machine Machine operating operating Standby mode Senses changes in equipment condition Flow rate 1800 L/min Pressure 0.5 MPa **Detects decrease of flow** Flow rate 200 L/min during equipment standby. Determined to be in Standby status Pressure 0.5 MPa **Provides minimum required** Air consumption pressure during standby to reduced by 50% or more reduce air consumption



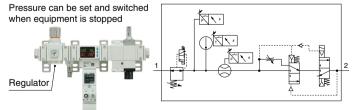
Two types of standby regulators available

Automatically switches to low pressure when flow rate falls below the set value.

Electro-Pneumatic Regulator Type (ITV Series)/AMS20A/30A/40A/60A Series

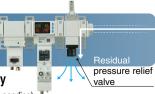


Regulator Type (ARS Series)/AMS20B/30B/40B/60B Series



Reduce air consumption by shutting off valves depending on equipment shutdown conditions Isolation mode

Residual pressure exhaust valve allows further reduction of air consumption by shutting off the air supply Equipped with automatic-isolation mode that can be shut off after set-up setting times from standby mode (patent pending)





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Air Management System AMS20/30/40/60 Series

Allows visualization of production equipment status

"Flow rate," "pressure," and "temperature" as well as various sensor information can be communicated to host system via Industrial

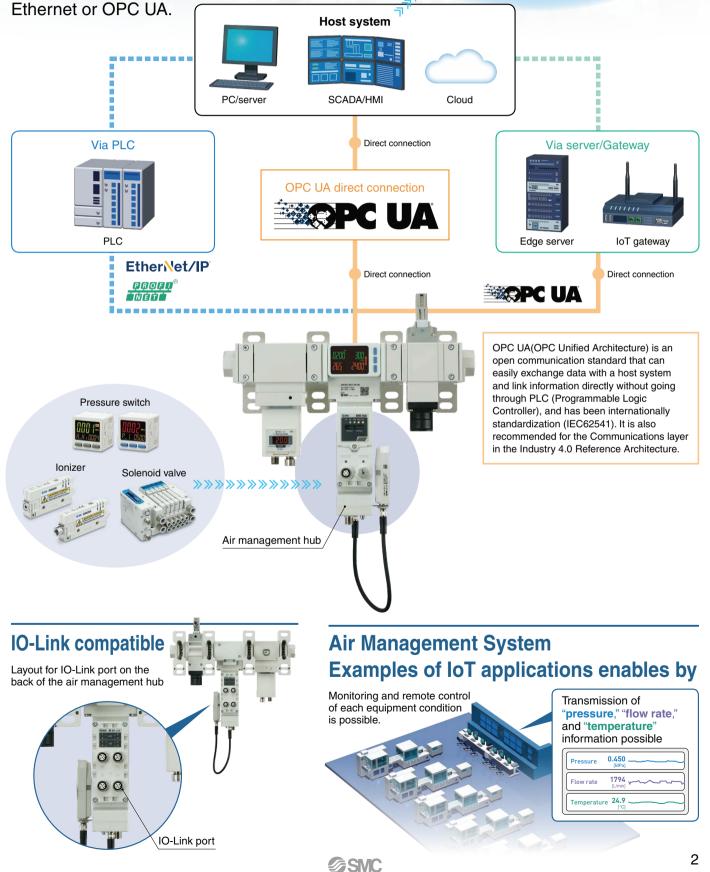


Equipment status can be

monitored from another location

or from outside the office.





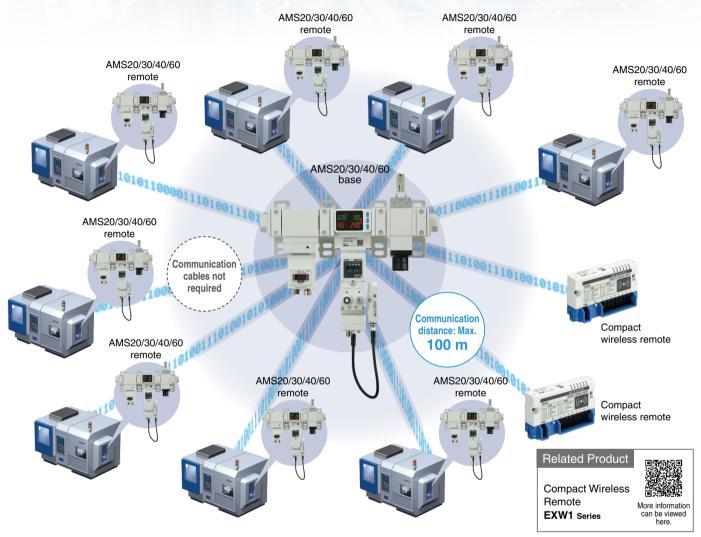
Air Management System AMS20/30/40/60 Series



* When connecting a wireless adapter (sold separately)

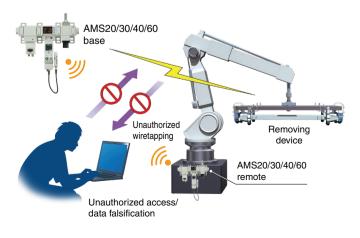
Compatible with wireless systems*

- Communication cables not required Reduced wiring work, space, and cost Minimized disconnection risk
- Connectivity to up to 10 remotes (AMS20/30/40/60 or small wireless devices)



High security using encryption

Unauthorized access from outside is prevented by using data encryption.



Can be retrofitted to existing equipment

With OPC UA and wireless systems, it can be introduced without connection to PLC and changing the programming. Modular type F.R.L. combination can be connected.

