



SS-N-890/-891-LWP Series Network Control and Monitoring Cabinets

FUNCTIONALITY

In order to monitor processes, even in high-temperature areas, the safe operation of components such as furnace probes and retractions devices is essential.

For this purpose, PIEPER develops and manufactures its own control and monitoring cabinets for the processing, regulation and monitoring of operating media

The SS-N-890/891 series focuses on the possibilities of automation and self-regulation of the control systems.

MAIN FEATURES

- Integration into network environments
- Electronic monitoring via SPS
- Sensors for media monitoring
- Optional: motor driven water flow control for an optimized water consumption



SS-N-890/-891-LWP SERIES - TECHNICAL DATA*

| SPECIAL FEATURES | SS-N-890-LWP | SS-N-891-LWP |
|---------------------------------|--------------|--------------|
| Network integration | x | x |
| Motor driven water flow control | | x |

| SPECIFICATIONS | |
|---|--|
| Cooling water circuit | Pressure-relief valve 10 bar; shut-off valve; digital pressure gauge; temperature indication instrument for water in- and outlet; flow sensor incl. function display; continuous measurement and adjustable switch-points; measuring and setting range: 5 to 50 liters |
| Lens purge air (probe inside) | Modular pressure controller; automatic condensate drain; pressure gauge incl. manometer |
| Purge air (fitting) | Air distribution; shut-off valve |
| Pneumatic system (retraction device) | Modular pressure controller; pressure gauge incl. manometer; oil-fog lubricator; 5/2-way valve; silencer; electr. air pressure monitoring; 6 liters reserve compressed air tank (in case of an air outage) |
| Electronic central monitoring via SPS | SIMATIC S7-1200; CPU 1212C; Profinet connection; network integration options; sensors for media monitoring: air, cooling water, pneumatic pressure, temperature; connected via IO-Link via Profinet; optional automatic water flow control (SS-N-891-LWP) |
| IO-Link | IO-Link Master; Vortex flow sensor incl. display (water); pneumatic pressure sensor incl. display (air); compressed air meter for precise flow measurement, consumption and temperature (purge air) |
| Media control display (outer door of cabinet) | 7" HMI display for monitoring and control; probe on/off; lamp & equipment test; local/remote switch; protected web interface (remote diagnostics and maintenance); status display: outlet flow rate (cooling water), air, excess temperature; operating hours in furnace; parameter query, user login for system access; history query |
| Media connections | 5 x SV 22 (cooling water), 1 x SV 18 (air supply), 1 x SV 15 (fitting), 2 x SV 8 (ASZ pneumatics), 1 x SV 8 (ASZ purge air), 1 x SV 8 (FRS purge air), 2 x SV 8 (condensate drain), 4 x PG 16 (cable gland) |
| Closet | 2-point locking; dimensions (W x H x D): 1,000 x 800 x 210 mm (without reserve compressed air tank) / 1,000 x 1,000 x 210 mm (with reserve compressed air tank); paint: RAL 7035; power supply: 90 - 240 V AC, 50/60 Hz; maintenance switch according machine guidelines |

| CAMERA JUNCTION BOX SERIES KMF-N (NOT INCLUDED IN DELIVERY) | |
|---|--|
| Junction box for SPS connection | Switch-Board 5 x 10/100/1000 MBit; 1 x SFP Port GBit, 32Bit ARM7 Controller; web interface; 7 x 24 V DC connections for IO-Link, SPS etc.; power supply unit input voltage: 90 - 240 V AC, 60 W; power supply unit output voltage: 12 V DC, 24 V DC, 2 A |

*Other customizable versions are available on request

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