RLC 01 - RLV 01

Reference air controller and

Reference air supply unit for oxygen probes

- Measurement and closed loop control of reference air and burn off air for an oxygen probe
- Generation, logging and visualization of alarm signals on deviation from setpoints for reference air and burn of air
- Detection of unconnected reference air connection to the probe
- Version RLC 01 as Control Unit for integration in existing applications. System covers complete measurement and control of reference air and burn off air flow rate. No additional equipment than external pumps needed.
- Version RLV 01 as complete Reference and Burn off Air Supply Unit.
- By controlling the flow rates and the detection of pump aging, the use of commercial low-cost pumps is possible without any risk.
- Separate pumps for reference air and burn off air prevent measurement errors due to a leaking burn off air valve.
- Network interface with Modbus / TCP interface to provide all setpoints, readings and alarm signals to a process control system, with MQTT protocol for easy integration into IIOT and web server for easy configuration.
- Supply with 230V AC max. 250 mA

Version RLC 01

Version RLC 01 as Control Unit for integration into existing applications. System covers complete measurement and control of reference air and burn off air flow rate. No additional equipment than external pumps needed.

Version RLV0 1

Version RLV 01 as complete Reference and Burn off Air Supply Unit mounted into a small cabinet.

Benefits

- Complete recording and documentation of the reference air flow rate and burn off air flow rate possible
- Generation of alarm messages in the event of faults such as setpoint deviation (CQI9)
- Early detection of necessary pump replacement or maintenance
- Cost savings by using of commercially available, cost-effective pumps
- Available in two Versions as Control unit and as complete Supply unit for an oxygen probe
- Easy integration in Process control system via integrated Modbus/TCP and MQTT protocol

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