

seven

Features overview

| | ECOTRON | PROFITRON | HiMod |
|--|---------|-----------|-------|
| INPUTS AND OUTPUTS | | | |
| Binary inputs 24 / 48 V | | | |
| OPEN, CLOSE, STOP (galvanically isolated) | ● | ● | ● |
| EMERGENCY and Mode (galvanically isolated) | | ● | ● |
| Binary control via permanent contact | ● | ● | ● |
| Binary control via pulse contact | | ● | ● |
| Proportional move (binary signal duration proportional to pos. time OPEN to CLOSE) | | ○ | ● |
| Binary outputs 24 / 48 V (galvanically isolated) with freely selectable assignment | 5 ● | 8 ● | 8 ● |
| Relay outputs max. 125 V DC / 250 V AC (galvanically isolated) | 5 ○ | 8 ○ | 8 ○ |
| Analog control via setpoint input (positioner) 0/4 – 20 mA | | ○ | ● |
| Analog control via process controller 0/4 – 20 mA (2 nd Analog input) | | ○ | ○ |
| Analog output (position feedback) 0/4 – 20 mA | ● | ● | ● |
| Passive 24 V supply of the analog position feedback | | ○ | ○ |
| Galvanic isolation of every analog input and output | | ● | ● |
| Control mode selectable from remote | | ● | ● |
| External 24 V supply of the electronics possible | ● | ● | ● |
| Cable break monitoring | ● | ● | ● |
| FIELDBUS INTERFACE | | | |
| PROFIBUS DP / Modbus RTU (1-channel optional with FO) | ○ | ○ | ○ |
| HART | | ○ | ○ |
| COMMUNICATION WITH PROGRAMMING TOOLS | | | |
| PROFIBUS: DTM for FDT, EDD for PDM and AMS | ● | ● | ● |
| HART: EDD for AMS | | ● | ● |
| COM-SIPOS PC program via | ● | ● | ● |
| USB (non-intrusive for PROFITRON / HiMod) | | ● | ● |
| Bluetooth | | ● | ● |
| SETTING AND PARAMETERIZATION | | | |
| Different tripping torques for OPEN and CLOSE (up to eight steps) | ● | ● | ● |
| Adjustable output speeds (seven steps) | ● | ● | ● |
| Different output speeds for OPEN, CLOSE, EMERGENCY OPEN, EMERGENCY CLOSE | | ● | ● |
| Tripping (limit / torque dependent) | ● | ● | ● |
| Direction of rotation (clockwise / counter-clockwise closing) | ● | ● | ● |
| Non-intrusive (actuator commissioning without opening the actuator) | | ○ | ● |
| Retry torque block | | ● | ● |
| Intermediate contacts in OPEN and CLOSE direction | | ● | ● |
| Motor heating | ○ | ● | ● |
| Maintenance (maintenance intervals of the valve) | | ● | ● |
| FURTHER SOFTWARE FUNCTIONS | | | |
| Split-range-function 0/4 – 20 mA (splitted signal controls different actuators) | | ○ | ○ |
| Stroke dependent speed settings (for up to 10 stroke segments) | | ○ | ○ |
| Analog speed setting 0/4 – 20 mA during operation | | ○ | ○ |
| Stroke dependent positioning time setting (for up to 10 stroke segments) | | ○ | ○ |
| Customer specific software | | ○ | ○ |
| CONTROL AND MONITORING | | | |
| Local controls with only one control elements (optionally lockable) | ● | ● | ● |
| Segment display (parameterization and commissioning via symbols) | ● | | |
| Menu-driven, graphical color display with status indication in many languages | | ● | ● |
| LEDs for REMOTE / LOCAL and OPEN / CLOSE | ● | ● | ● |
| Time stamped event logging and operational data | | ● | ● |
| SAFETY | | | |
| Valve protection: soft start and soft stop in the end position ranges | ● | ● | ● |
| Recording of torque curves of the valves (3 reference curves) | | ● | ● |
| Measurement and monitoring of the motor temperature | ● | ● | ● |

○ = Option ● = Standard