

CU4plus Series Control Units

Direct Connect & AS-i



Accurate and Reliable Control of SPX FLOW Valves

The CU4plus utilizes the latest in advanced control unit technology to offer the optimum solution to control and monitor sanitary valves. The control units provide increased process accuracy and safety, easy operation, and reliable diagnostic tools for predictive maintenance.

Innovative, high-resolution position system:

- Highly accurate, contact-free valve stem measuring
- "Teach-In" function for quick and easy feedback adjustment

- Innovated fully integrated seat lift detection (SLD) for mix proof valves

Based on proven CU4 series platform

- Chemically resistant, high strength synthetic construction
- Ultra bright LEDs for clear indication of valve position, power, and solenoid activation
- Manual override solenoids and adjustment screw to throttle actuator air flow
- IP67 (NEMA 6) rating to withstand washdown environments
- Ability to retrofit and upgrade on existing valves

Toolbox software for control, monitoring, and service:

- Flexibility to adjust to different valve types (quarter-turn, single seat, double seat mix proof)
- Ability to monitor valve open/close speed, number of strokes, operating hours, feedback position trends, and power status
- Service feature ties to PLC for predictive maintenance functionality

GENERAL TECHNICAL DATA	
PROTECTION CLASS	IP67 (Complies with NEMA 6)
TEMPERATURE RANGE	-4 to + 158°F (- 20 to + 70°C)
AIR SUPPLY	87-116 psi (6-8 bar)
POSITION MEASURING SYSTEM	Contact-free position sensor with adjustable points via Teach-In function; Measuring range 0-72 mm; Relative repetitive accuracy < 0.1 mm
COMMUNICATION	Direct Connect: 24VDC, parallel wiring; AS-interface: AS-i V3.0 profile S-7.A.E
OPERATING VOLTAGE	According to AS-interface specification, 26.5-31.6 VDC
COMMUNICATION OF SERVICE REQUEST	Direct Connect: service request signal to PLC AS-interface: Peri-fault via AS-i master
MAX. CURRENT CONSUMPTION	150 mA
NUMBER OF SOLENOIDS	1 - 1N - 3 Optional NOT element (N) to provide automatic air assist to increase product holding pressure
INDICATORS	LED for status: - AS-i Status - Valve Open - Valve Closed - Power/Diagnose - Upper Seat Lift (CU43plus-M & D4) - Lower Seat Lift (CU43plus-M & D4)
ELECTRIC CONNECTIONS	M20 cable gland (Std), 4-Pin M12 (optional)
AIR CONNECTIONS	6 mm or 1/4" OD flexible poly tubing

*Please Read Instruction Manual