

# DELTA CU4 Direct Connect

## CONTROL UNIT

The APV DELTA CU4 Control Unit line for valves provides an interface between the PLC control system and the pneumatic process valve in a pipe work. The DELTA CU4 is mainly used in the brewery, dairy, beverage, processed food, healthcare and pharmaceutical industries.

### KEY FUNCTIONS

- Air supply control on/off to the pneumatic valve actuator
- Electrical feedback on the valve stem position
- Electrical communication with the PLC system

### FLEXIBILITY

The DELTA CU4 Direct Connect is part of the APV DELTA CU4 product line family sharing a common piece part platform. Due to its modular design, the DELTA CU4 can be adapted to the various APV valve lines (BFVs, SSVs, DSVs) via individualized adapters. It is a suitable option for retrofit on APV's valves installed base and can also be retrofitted via adapters on other vendors' valves.



ELECTRICAL DATA : DIRECT CONNECTION	
SUPPLY VOLTAGE:	15-48VDC, (REVERSE POLARITY PROTECTION)
POWER CONSUMPTION:	TYPICALLY 35MA, AT 24VDC (POWER ON, 2 LED, 1 SOLENOID VALVE)
3 INPUT SIGNALS: (DI, CONTROL OF SOLENOIDS)	10 – 48 V AC/DC, ISOLATED/OPTO-COUPLED
2 OUTPUT SIGNALS: (DO, VALVE FEEDBACK)	UMAX. 48V AC/DC, ISOLATED/OPTO-COUPLED
DIAGNOSIS:	SOLENOID MONITORING

GENERAL TECHNICAL DATA	
PROTECTION CLASS:	IP67, COMPLIES WITH NEMA6
AMBIENT TEMPERATURE:	-20°C – 70°C
AIR SUPPLY:	6-8 BAR
NUMBER OF SOLENOIDS:	1, 3 OPTIONAL NOT ELEMENT (A NOT ELEMENT PROVIDES AUTOMATIC AIR ASSIST TO THE BACK SIDE OF THE PISTON TO INCREASE PRODUCT HOLDING PRESSURE)
FEEDBACK SENSORS:	2 INTERNAL OR 2 EXTERNAL FEEDBACK SENSORS SWITCHES FOR VALVE OPEN/VALVE CLOSED POSITION DETECTION
INDICATORS:	LEDS FOR STATUS VALVE OPEN VALVE CLOSED POWER/DIAGNOSE (UPPER SEAT LIFT) (LOWER SEAT LIFT)

*Please read Operating Manual*

SPX Flow Technolog, Zechenstrasse 49, D-59425 Unna, Germany  
Phone: +49 (0) 23 03/ 108-0 Fax: +49 (0) 23 03/ 108-210



SPX reserves the right to incorporate our latest design and material changes without notice or obligation. Design features, materials of construction and dimensional data, as described in this bulletin, are provided for your information only and should not be relied upon unless confirmed in writing. Please contact your local sales representative for product availability in your region. For more information visit [www.spx.com](http://www.spx.com).

The green ">" is a trademark of SPX Corporation, Inc.

APV-8032-GB Version: 02/2012 Issued: 01/2012 COPYRIGHT © 2011, 2012 SPX Corporation