

## Modular Digital Amplifier DCX

### Scope of Supply

- According to individual customized specification
- Plug-in terminal blocks

### Available Fieldbus and Ethernet Interfaces



### Special features

- Individual configurable Amplifier/Controller-Unit
- Specification of measurement channels, outputs and interfaces freely selectable
- Optimum use for a wide variety of requirements
- Low cycle time for high-speed applications (0,52 ms)
- Amplifier with 24-bit  $\Sigma$ - $\Delta$  ADC
- Analog outputs with 16-bit resolution
- Easy usable touch panel display

### Manifold configuration options as:

- Multi-channel amplifier (up to 8 measurement channels)
- Amplifier with the possibility of
  - External zero point adjust
  - Limit force monitoring
  - Press tonnage monitoring
  - Wrap angle correction
  - XY-sensor-signal-analysis
- Closed loop controller with various programmable control modes
- Adder for several voltage values

### Touch panel display

|       |       |       |       |      |  |
|-------|-------|-------|-------|------|--|
| Ch1 : | 98.45 | Ch5 : | 63.25 |      |  |
| Ch2 : | 16.45 | Ch6 : | 75.25 |      |  |
| Ch3 : | 52.36 | Ch7 : | 15.23 |      |  |
| Ch4 : | 84.62 | Ch8 : | 58.94 |      |  |
| Menü  | max   | min   | Func. | Ver. |  |

1. 2. 3. 4. 5. 6. 7. 8. 9.  
 DCX2 - U4C2 - CC - Y1 - A - G3 - Z - 0,35

**Attribute 9: Set to the nominal rating of the corresponding sensors**  
 0,35 / 0,5 / 0,75 / 1,0 / 1,25 / 1,5 etc.

**Attribute 8: Extended functions**  
 F = Potentially explosive atmospheres: use with safety barriers  
 G = Limit switch  
 J = Strain gauge supply voltage 5 V  
 K = Electrical connections wired with terminal blocks  
 M = Measuring range switch  
 R = Controller function  
 S = Adder  
 W = Wrap angle correction  
 V = Customer specified presetting  
 Z = No extended function  
 (Further specification per function required)

**Attribute 7: Enclosure**  
 G0 = Standard DIN Rail Mount enclosure  
 G1 = Plastic with transparent cover/ RAL7032  
 G2 = Steel sheet with door and window / RAL7035  
 G3 = Steel sheet with door/ RAL7035  
 G4 = Stainless steel enclosure

**Attribute 6: Supply voltage**  
 A = 110-240 V AC  
 Z = Standard 24 V DC

**Attribute 5: Signal-output-configuration**  
 (for measuring chains with several signal per channel)  
 1 Measuring chain = sensor A+B  
 Y1: (A+B)/2  
 Y2: A, B  
 Y3: A, B, (A+B)/2  
 Y4: A, B, (A+B)/2, A-B  
 Z = no analog signal

**Attribute 4: Fieldbus signal**  
 CO = CANopen / CC = CC-Link / DN = DeviceNet /  
 EN = EtherNet/IP / EC = EtherCAT / MT = Modbus-TCP /  
 PB = Profibus / PN = Profinet IO  
 Z = No bus system

**Attribute 3: Number of current outputs 4-20mA**  
 C0 = No current output  
 C1 = 1 current outputs  
 C2 = 2 current outputs  
 Max. C8 = 8 current outputs

**Attribute 2: Number of voltage outputs ± 10 V DC**  
 U0 = No voltage output  
 U4 = 4 voltage outputs  
 U8 = 8 voltage outputs

**Attribute 1: Number of direct measurement channels**  
 0 = 0 channels  
 1 = 1 channels  
 2 = 2 channels  
 Max. 8 = 8 channels

Enclosure examples:

