Modular Digital Amplifier DCX

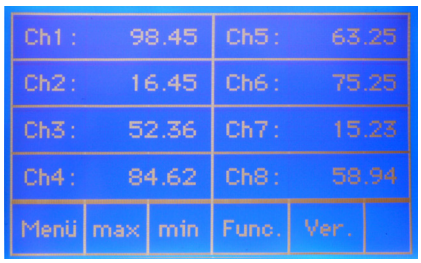
Scope of Supply

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

Available Fieldbus and Ethernet Interfaces

PROFIBUS
PROFINET
CANopen
EtherNet/IP
EtherCAT
CC-Link
DeviceNet

Touch panel display



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 Σ-Δ 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

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DCX

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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 with door

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

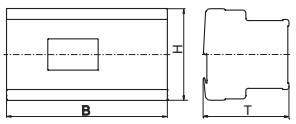
Attribute 4: Fieldbus signal
CO = CANopen / CC = CC-Link / DN = DeviceNet /
EN = EtherNet/IP / EC = EtherCAT / MT = Modbus-TCP /
PB = Profibus / PN = Profinet IO
Z = No bus system

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

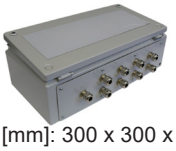
Enclosure examples:

G0


IP20
B x H x T [mm]: 205x 160 x 125

G1

IP65
B x H x T [mm]: 250 x 375 x 225

G2

IP66
B x H x T [mm]: 300 x 300 x 210

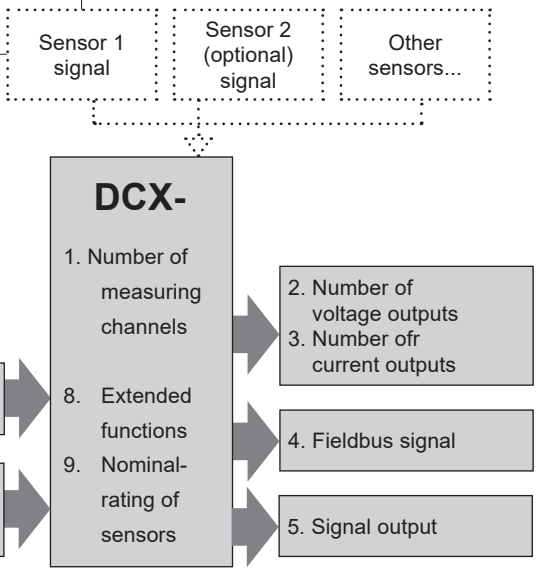
G3

IP66
B x H x T [mm]: 300 x 300 x 210

G4

IP66
B x H x T [mm]: 380 x 300 x 210

Illustration similar



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