

EXOcompact – Freely programmable controllers

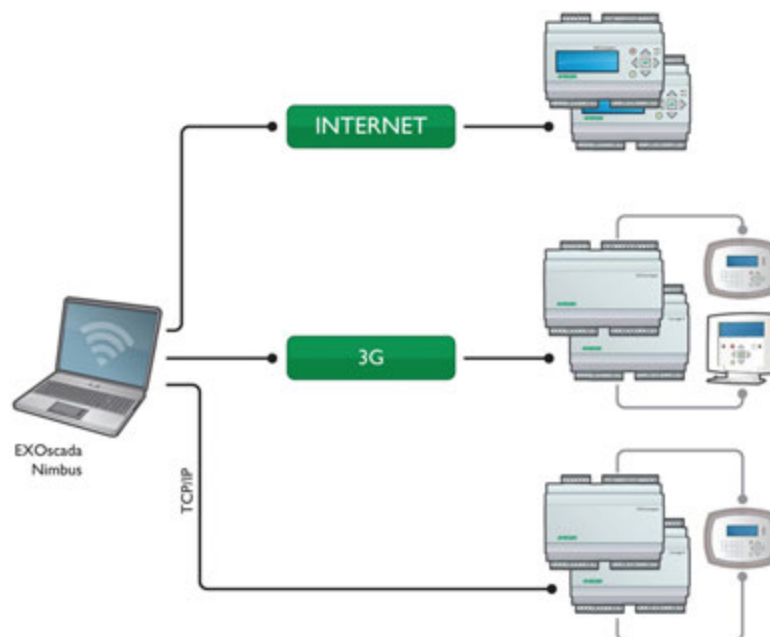
The EXOcompact controllers are perfect for stand-alone applications, e.g. zone control, control of heating and air handling units, as well as for system integration. They have a powerful processor and are available in three sizes with 8, 15 or 28 I/Os, with or without display.

Programming takes place in EXOdesigner. The controllers communicate via EXOline or Modbus via RS485. Alternative communication via TCP/IP or M-Bus is available as an option. EXOcompact is available with one, two or three communication ports, enabling easy input/output expansion, connection of electricity/energy meters or communication with other controllers.

- Freely programmable with fixed I/O configuration
- For control of heating centrals, air handling units etc.
- 8, 15 or 28 I/Os, with or without display
- Digital outputs via Mosfet with 2 A, 24 V AC/DC
- Powerful processor
- Optional DC supply voltage
- Possible to expand the number of I/Os using two ports and expansion units based on EXOcompact without display
- One, two or three communication ports
- Programming is performed in EXOdesigner
- TCP/IP optional
- Communication via RS485 (EXOline or Modbus), TCP (EXOline-TCP, BACnet/IP), M-Bus (internally for M-3 models or via external XI176 unit)
- Complement to EXOflex in large automation systems



Technical data	
Supply voltage	24 V AC ±15%, 50...60 Hz or 20...36 V DC
Power consumption	4 VA without load, no display
BTL approval	EXOreal version 3.1-1-02 or later
+C output	+ 24 V DC, 0.15 A, short-circuit proof
Operating system	EXOreal C
Battery backup	Memory and real-time clock, at least 5 years
Ambient temperature	0...50 °C
Storage temperature	-20...+70 °C
Ambient humidity	Max. 95 % RH
Display	Backlit, LCD, 4 rows of 20 characters, international character set
Dimensions (WxHxD)	148 x 123 x 60 mm
Casing	Polycarbonate, PC
Protection class	IP20
Mounting	DIN-rail or cabinet
Number of modules	8.5
Communication ports	
RS485	EXOline or Modbus with automatic detection/switch-over
TCP/IP	EXOline-TCP, BACnet/IP
M-Bus ports	Internally for M-3 models or via external X1176 unit
Inputs	
Analogue inputs (AI)	0(4)...20 mA, 0...10 V DC, 0...200 mV, PT1000, Ni1000 DIN, Ni1000 LG, 800...1600 Ω, 0...4000 Ω, 12-bit A/D
Digital inputs (DI)	Floating switch, 24 V DC, configurable for pulse input
Universal inputs (UI)	AI or DI (see above)
Outputs	
Analogue outputs (AO)	0...10 V DC, 5 mA, 12-bit D/A, short-circuit proof
Digital outputs (DO)	Mosfet 24 V AC/DC, 2 A. Totally max. 8 A.
24 V DC output	0.15 A, short-circuit proof



Controller with display



Article	AI	DI	UI	AO	DO	RS485 ports
C81D-3	2	3	-	1	2	1
C151D-3	4	4	-	3	4	1
C281D-3	4	8	4	5	7	1
C282D-3	4	8	4	5	7	2

Controller without display



Article	AI	DI	UI	AO	DO	RS485 ports
C81-3	2	3	-	1	2	1
C151-3	4	4	-	3	4	1
C281-3	4	8	4	5	7	1
C282-3	4	8	4	5	7	2

Controller with TCP/IP communication, with display



Article	AI	DI	UI	AO	DO	RS485 ports	TCP/IP ports	M-Bus ports
C152DT-3	4	4	-	3	4	1	1	-
C282DT-3	4	8	4	5	7	1	1	-
C283DT-3	4	8	4	5	7	2	1	-
C283DTM-3	4	8	4	5	7	1	1	1

Controller with TCP/IP communication, without display



Article	AI	DI	UI	AO	DO	RS485 ports	TCP/IP ports	M-Bus ports
C152T-3	4	4	-	3	4	1	1	-
C282T-3	4	8	4	5	7	1	1	-
C283T-3	4	8	4	5	7	2	1	-
C283TM-3	4	8	4	5	7	1	1	1