

Controllers

OPEN 3100 EMS series

Technology for intelligent buildings

OPEN 3100 EMS series designed as freely programmable **Direct Digital Controllers (DDCs)**



DS-OPEN 3100 EMS Cx



Highlights at a glance

- ✓ Designed for control and regulation of larger equipment systems, where a high fail-safe level must be ensured
- ✓ Fail-safe through the High Safety Bus function
- ✓ Integrated Onboard BMS OPENview
- ✓ Alarm management – DEOS Secure AlarmApp (optional)
- ✓ Trend recording and trend export
- ✓ Service & Security Center (SSC) for IT security
- ✓ Expandable with modules
- ✓ Maintenance-free
- ✓ Extensive libraries, incl. graphics for efficient engineering

Variant with 2 CAN interfaces

- CAN-HSB safety ring bus is a further development of the CAN-Bus, proven throughout the world
- Fast activation and configuration via the OPEN EMS web server
- Easy expandability – DEOS IO modules at the field level are networked via a CAN-bus ring topology
- **Advantage:** If the ring is interrupted, the connected field devices can still be controlled from the other ring side

Software equipment & system integration ¹⁾		DS-OPEN 3100/x EMS	
	C1x	C2x	
OPENview text	■	■	
OPENview graphics	□	□	
Service & Security Center	■	■	
Alarm management	□	□	
CAN-HSB	–	■	
Redundancy	–	–	
BACnet objects	–	–	
M-Bus meters	–	–	
External level converters	250 ³⁾	250 ³⁾	
KNX data points	0 1000 ⁴⁾	0 1000 ⁴⁾	
MODBUS data points			
MODBUS slave	□	□	
MODBUS master	0 1000 ⁴⁾	0 1000 ⁴⁾	
DALI addresses	–	–	
CAN devices			
IO modules, drives ⁵⁾	99	198	
IO7, CORA, CODI	96	192	
Total	99	198	
Physical data points	4000	4000	

¹ Additional product information is provided in the data sheet (see DEOS Portal at portal.deos-ag.com/...)

² Only for variants with redundancy DS-OPEN 4100 EMS C1/R and DS-OPEN 4100 EMS C2/R nutzbar

³ Standard activation: The number of M-Bus meters depends on the type of M-Bus level converter (see page 41 as well as page 67)

⁴ Maximum expansion (optional, surcharge)

⁵ Only drive types DWH, PLD, and PWD

DEOS AG

Controllers

OPEN 3100 EMS series

OPEN 3100 EMS	Type	Art. no.
With 1 CAN interface	DS-OPEN 3100 EMS C1	DS-360097
With 2 CAN interfaces, CAN-HSB	DS-OPEN 3100 EMS C2	DS-360098

Expansion modules – functions	Type	Art. no.
OPENview graphics	For OPEN ... EMS C1	DS-OVC1
	For OPEN ... EMS C2	DS-OVC2
Alarm management	DEOS Secure AlarmApp ^{1), 2)}	DS-N-Alarm
	AlarmApp Reporter OPEN EMS ²⁾	DS-N-Reporter EMS
	AlarmApp user package 5 ³⁾ – monthly	DS-N-USER5
	AlarmApp user package 25 ³⁾ – monthly	DS-N-USER25
	AlarmApp user package 50 ³⁾ – monthly	DS-N-USER50

Expansion modules – system integration	Type	Art. no.
KNX	50 KNX data points	DS-KNX50
	100 KNX data points	DS-KNX100
	250 KNX data points	DS-KNX250
	500 KNX data points	DS-KNX500
	1000 KNX data points	DS-KNX1000
MODBUS master	25 MODBUS data points	DS-MOD MA25
	50 MODBUS data points	DS-MOD MA50
	100 MODBUS data points	DS-MOD MA100
	250 MODBUS data points	DS-MOD MA250
	500 MODBUS data points	DS-MOD MA500
	1000 MODBUS data points	DS-MOD MA1000
MODBUS slave	DS-MOD SL	DS-371169
ebm-papst ^{4), 6)}	7 ebm-papst data points (= 1 fan)	DS-EBM-PST
Grundfos ^{5), 6)}	7 Grundfos data points (= 1 pump)	DS-GR-PU

¹ End customers need at least a user package (DS-360412, DS-360413, DS-360414) to be able to use the DEOS Secure AlarmApp. The use of the DEOS Secure AlarmApp is free of charge for employees of DEOS system partners.

² Minimum prerequisite OPEN EMS firmware version 1,064

³ The user packages can be combined as required to achieve the desired number of users

⁴ Up to 128 fans can be connected via RS485

⁵ Up to 31 pumps can be connected via RS485

⁶ DS-EBM-PST and DS-GR-PU cannot be used simultaneously on one controller