

ET-208 7" (800 x 480)

NO. DS200640120100 | EN
2015 | V 01.00.04



ET-208 - 7" (800 x 480)

The ET-208 Operator Interface with its 7" widescreen display is ideally suited for machine-oriented operation and visualization – it is frequently used to control mixers and compressors as well as on drilling platforms and tank farms in zones 1, 21. Its innovative product design makes the ET-208 highly robust and seawater-proof, with IP66 at the front and universally installable in temperatures ranging from -40 °C to +65 °C [-40 °F up to +149 °F].

The luminous display shows processes in great contrast, easily readable and in brilliant colours. The standard operating system for the SERIES 200 is Windows Embedded Compact 7 (WEC7). The devices can be equipped with our cost-effective proprietary SPSPlus-Runtime software, and, for more complex tasks, with Progea Movicon EC Runtime. All modern communication interfaces are included: industrial Ethernet, serial interfaces (RS-422 / RS-485) and WLAN (optional).

Explosion protection Certification / Marking



ATEX directive 94/9/EG

BVS 15 ATEX E 042 X

ET-208-TX

II 2 G Ex e ib q [ib] IIC T4 Gb

II 2 D Ex tb ib [ib] IIIA T115°C Db

ET-208-FX

(in preparation)

IECEx

BVS 15.0039X

ET-208-TX

Ex e ib q [ib] IIC T4 Gb

Ex t bib [ib] IIIA T115°C Db

ET-208-FX

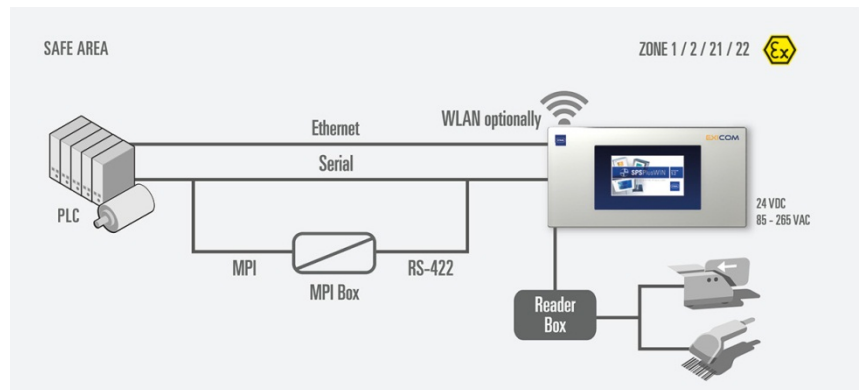
(in preparation)

Additional certifications:

Russia (TR), Canada (CSA)

Korea (KCC), Brazil (INMETRO)

(in preparation)



Hardware

- Brilliant 7" colour display with 800 x 480 pixels (format 15:9)
- Capacitive touch screen with hardened glass front
- Compact design, compatible with the cut-out dimensions of all FALCON devices
- Robust, seawater-proof metal enclosure with IP66 / IP54 (front / back)
- Extreme temperature range from -40 °C to +65 °C [-40 °F up to +149 °F] without additional heating / cooling

Firmware / Software

- Operating system
 - Windows Embedded Compact® 7
 - Driver support for other operating systems (on request)
- Runtime software
 - SPSPlus firmware (compatible with the FALCON and EALGE series)
 - Movicon CE 4096 I/O Bytes
 - Open for integration of third-party software
- Engineering software
 - SPSPlusWIN up from 5.3 (for all Operator Interfaces with SPSPlus Runtime)
 - Movicon 11 (for all devices with Movicon Runtime)

Ambient temperatures

Operation	-40 °C to +65 °C [-40 °F up to +149 °F]
Storage	-40 °C to +70 °C [-40 °F up to +158 °F]

Front IP66, Back IP54

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Technical Data		
Design	Front plate installation	
Display	18 cm (7") TFT colour display 16.2 million colours WVGA 800 x 480 Format 15:9	Brightness 500 cd/m ² Contrast 600:1 Touch screen capacitive
Backlight	LED Technology Service life of 50,000 h at +25 °C [+77 °F]	
Function keys at display	Optionally via key matrix, freely configurable up to 4 x 8 keys	
External keyboard	-	
Processor / memory	Cortex A8, 800 MHz Main memory 512 Mbyte RAM Data memory 1 Gbyte Flash + 512 Mbyte SSD	
Operating system	Windows Embedded Compact 7	
Runtime software	SPSPlus runtime Progea Movicon CE runtime with 4096 I/O bytes	
Engineering software	SPSPlusWIN 5.3.x Movicon 11	
Languages	Operating system: English Runtime: multilingual, depending of configuration	
Interfaces	1 x Ethernet 10/100Base-TX (Ex e) or LWL 100Base-FX (Ex op is) (in preparation) 1 x USB (Ex ib) 1 x USB (Ex e) 1 x RS-422 / RS-485; 1 x RS-422 (Ex e)	Optional interfaces 1 x barcode / RFID via ReaderBox RS-422 1 x WLAN 802.11b/g, 11 / 54 Mbps (in preparation) MPI with MPI Box SSW7-RK512-RS-422
Dimensions (WxHxD)	290 x 146 x 83 mm [0.95 x 0.48 x 0.27 ft]	
Cut-out	275 x 131 (+/- 0.5) mm [0.9 x 0.43 (0.0016) ft]	
Wall thickness	≤ 8 mm [0.0087 ft]	
Mounting orientation	Any position	
Weight	5 kg [11.02 lbs]	
Power supply	24 VDC (Ex e); 475 mA max. (890 mA max. at operation with heating) 85 - 240 VAC, 48 - 62 Hz (Ex e); 84 mA max. at 230 VAC (162 mA max. at operation with heating)	
Power	12 W / 22 W (without / with heater) at 24 VDC, 18 VA / 36 VA (without / with heater) at 230 VAC	
Operation with heater	Automatic	
Data cables / lengths	Copper (TX): CAT5 installation cable AWG22, max. 100 m [328.08 ft]	
Real-time clock	Yes, capacitor buffered, maintenance-free Data buffer at least 4 days	
Status display	LEDs - Ethernet link and activity (green) - Ethernet speed (yellow)	
Ambient temperatures	Operation: -40 °C up to +65 °C [-40 °F up to +149 °F] Storage: -40 °C up to +70 °C [-40 °F up to +158 °F]	
Heat dissipation	Cooling via front plate	
Relative humidity	90% at +40 °C [+104 °F], without condensation	
Material Front	Specially hardened glass front plate on aluminium	
Material Back	Aluminium / stainless steel 304	
Type of protection	Front IP66 / Back IP54	

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Type code field system ET-208

Description	Code	ET-	2	08	-	4	0	1	0	3	0	0	0	-	0	0	0	0	0	0	0
Series																					
Zone 1, 21	ET-																				
Operator Interface	2																				
Display size 18 cm / 7" display, 800 x 480 Pixel	08																				
Ethernet																					
1 x copper Ethernet interface 10/100Base-TX (Ex e)	TX																				
1 x fibre optic Ethernet interface 100Base-FX (Ex op is)	FX																				
Processor																					
Cortex A8, 800 MHz	4																				
RAM: 512 MB	0																				
Display type																					
Sunlight viewable display	1																				
Daten memory																					
1 GB SSD	0																				
Touch																					
Capacitive touch under glass	3																				
Power supply																					
24 VDC (Ex e)	0																				
85 – 240 VAC, 48 – 62 Hz (Ex e)	1																				
Optional interface 1																					
No WLAN	0																				
WLAN 2,4 GHz, 802.11b/g	1																				
Optional interface 2: none	0																				
Option 3 / Option box: none	0																				
Enclosure design: Glass on aluminium	0																				
Operatingsystem																					
Windows Embedded Compact 7 (WEC 7)	2																				
Windows Embedded Compact 7 (WEC 7) and SPSPPlus RT	3																				
Windows Embedded Compact 7 (WEC 7) and Movicon CE 4096 I/O	4																				
Enclosure type																					
No enclosure	0																				
Stainless steel enclosure 8150 (400 x 400 [mm])	A																				
Material																					
No material (no enclosure)	0																				
Stainless steel V2A (SS304)	1																				
Mounting option																					
None, front panel mounting (no enclosure)	0																				
Wall mounting	1																				
Outdoor installation																					
Outdoor -20 °C (for enclosure with barcode reader)	3																				
Outdoor -30 °C (for enclosure with card reader)	4																				
Outdoor -40 °C	5																				
Keyboard																					
No keyboard, no pointing device	0																				
Matrix keyboard (requires enclosure)	B																				
Integrated pointing device: none	0																				
Separate pointing device: none	0																				

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Description	Code	ET- 2 08 - 4 0 1 0 3 0 0 0 - 0 0 0 0 0 0 0
Separate reader		
No separate reader	0	
RFID-Crypt reader (max. -30 °C), inc. ReaderBox, (requires additional enclosure 8150) components mounted in enclosure	1	
RFID-ASC reader, (max. -30 °C), inc. ReaderBox, (requires additional enclosure 8150) components mounted in enclosure	2	
Preparation for IDM-160-ex * barcode reader (max. -20 °C), wired, inc. ReaderBox, (requires enclosure) components mounted in enclosure	4	
Preparation for IDM-160-BT-ex * barcode reader (max. -20 °C) Bluetooth, inc. ReaderBox, base station and cable (requires enclosure) components mounted in enclosure	5	
Emergency stop switch: none	0	
Separate power supply: none	0	
Further options 1: none	0	
Further options 2: none	0	

Accessories	
Interface modules MPI-Box-SSW7-RK512-RS-422	S7 MPI Bus adapter with RS-422 interface, DIN rail mounting, no handling block required
Software WINEC7 WINEC7-SPSPlusRT WINEC7-MoviconCE SPSPlus-Win-5.xx SPSPlusWin-Update-5.xx Movicon11	Operating system Windows Embedded Compact 7® Operating system Windows Embedded Compact 7® and SPSPlus Runtime Operating system Windows Embedded Compact 7® and Progea Movicon CE Runtime Engineering software for all SERIES 200 Operator Interfaces Update to current version Engineering software Progea Movicon11 (for devices with Progea Movicon runtime)
Card reader RFIDI-RDR-2-MIF-CRYPT RFIDI-RDR-2-MIF-ASC	Mifare card reader (I.S.), proximity, protocol supported CRYPT, for connection to ReaderBox-104 Mifare card reader (I.S.), proximity, ASCII protocol, for connection to ReaderBox-104
Mifare cards Mifare-1K-S50-ISO14443-S-10 Mifare-1K-S50-ISO14443-S-100	10 Mifare proximity access cards 1K S50 - ISO 14443, front (front packaging): Vinyl glossy white 100 Mifare cards, as above
Barcode scanner I.S. IDM160-ex IDM160-PDF-ex IDM160-BT-ex IDM160-BT-PDF-ex	Barcode scanner handheld Zone 1, 2, 21, 22, wired, without cable, 1D barcode, 630 nm, reading speed 500 Scans/sec, reading distance up to 800 mm Barcode scanner handheld Zone 1, 2, 21, 22, wired, without cable, 1D barcode, 630 nm, stacked PDF barcodes reading speed 500 Scans/sec, reading distance up to 800 mm Barcode scanner handheld Zone 1, 2, 21, 22, Bluetooth, wireless, 1D barcode, 630 nm, reading speed 500 Scans/sec, reading distance up to 800 mm Barcode handheld scanner Zone 1, 2, 21, 22, Bluetooth, wireless, 1D barcode, 630 nm, stacked PDF barcodes reading speed 500 Scans/sec, reading distance up to 800 mm
Base station scanner IDM160-BT-BaseBT-Z1 IDM160-BT-BaseBT IDM160-BT-Base	Base station for handheld scanner BT, Bluetooth, Zone 1, access and loading station without cable, Bluetooth, loading in zone 1 Base station for handheld scanner BT, Bluetooth, Non-Ex, access and loading station without cable, Bluetooth, loading in the safe area Base station for handheld scanner BT, Non-Ex, loading station without scanner, no Bluetooth, loading in the safe area

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Connection cable scanner VB-IDM160-xx6-RS232-SR-1.8m VB-IDM160-xx6-RS232-SR-3.8m VB-IDM160-Base-RSi-RS232-SR-1.8m-Z1 VB-IDM160-Base-RSi-RS232-SR-3.8m-Z1 VB-IDM160-EXT-6m-Z1 VB-IDM160-EXT-4.5m-Z1	Connection cable for IDM160, interface RS-232, I.S. 5.6 V, cable length 1.8 m, straight, binder plug Connection cable for IDM160, interface RS-232, I.S. 5.6 V, cable length 3.8 m, curled, binder plug Connection cable for base loading station Z1, interface RS-232, I.S. 5.6 V, cable length 1.8 m, straight, binder plug Connection cable for base loading station Z1, interface RS-232, I.S. 5.6 V, cable length 3.8 m, curled, binder plug Extension cable for IDM160, cable length 6 m, straight Extension cable for IDM160, cable length 4.5 m, curled
Tripod IDM160-tripod	Tripod for IDM160, Material: ABS (Acrylnitril-Butadien-Styrol)
Desk holder IDM160-Deskholder	Desk holder for IDM160, Material: ABS (Acrylnitril-Butadien-Styrol)
Power supply DSP-IDM160-DC5V	Power supply for base loading station Non-Ex
Battery IDM160-BT-ex-Lion	Replacement battery for IDM160-BT-ex
Supply and connection module ReaderBox-104-AC-RS422 ReaderBox-104-DC-RS422 ReaderBox-054-AC-RS422 ReaderBox-054-DC-RS422	RFiDi reader version: operating voltage: 100 - 240 VAC, output voltage for readers 10.4 V (I.S.) RFiDi reader version: operating voltage: 12 - 30 VDC, output voltage for readers 10.4 V (I.S.) Barcode reader version, operating voltage: 100 - 240 VAC, output voltage for readers 5.4 V (I.S.) Barcode reader version, operating voltage: 12 - 30 VDC, output voltage for readers 5.4 V (I.S.)
Fixing frame HSG-208-V2A-125-Frame	Fixing frame for ET-/MT-208 (required for mounting when replacing an ET-/MT-125 with an ET-/MT-208)

Enclosure

Version 8150/0-C1704-X5/208-V2A-W 8150/0-C1706-208-V2A-W-RFID	Stainless steel enclosure V2A (SS304), cut-out for ET-/MT-x5, ET-/MT-208, front door, wall mounting, left hinge Stainless steel enclosure V2A (SS304), cut-out for ET-/MT-208 and RFID-Reader, front door, wall mounting, left hinge
Dimensions A = 400 mm [1.31 ft] B = 400 mm [1.31 ft] C = 150 mm [0.49 ft]	

8150/0-C1704-X5/208-V2A-W

8150/0-C1706-208-V2A-W-RFID

