



# DATA SHEET



## GPC-3 Generator Paralleling Controller



## 1. Data sheet

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# 1. Data sheet

- Regulation modes
- Generator protection (ANSI)
- M-Logic (Micro PLC)
- Busbar protection (ANSI)
- Display
- General

SW version: 3.0x.x or later

## 1.1 General information

### 1.1.1 Application

The Generator Paralleling Controller (GPC-3) is a compact all in one microprocessor-based control unit containing all necessary functions for protection and control of a synchronous/asynchronous generator. It contains all necessary galvanically separated 3-phase measuring circuits.

The GPC-3 is intended for land-based applications. It is designed for the following applications (can be combined):

1. Stand-alone
2. Parallel with other generators
3. Parallel to mains

The GPC-3 can synchronise the generator and after synchronisation carry out all necessary generator control and protective functions. It is well-suited for PLC-controlled systems and the interfacing can be done via binary and analogue I/Os or via serial communication.

### 1.1.2 Display unit

The display unit is separate and can be installed directly on the main unit or in the front of the switchboard door (3 m display cable included). Up to two additional displays can be installed within 200 m.

The display unit shows all measured and calculated values as well as alarms and data from the event log.

### 1.1.3 Operation modes

Four different regulation modes can easily be selected through digital inputs on the standard GPC-3, and the governor will be controlled accordingly:

1. Fixed frequency
2. Fixed power (base load)
3. Frequency droop
4. Load sharing

If the automatic voltage regulator is controlled by the GPC-3, the standard operation modes are extended with:

1. Fixed voltage
2. Fixed var
3. Fixed power factor
4. Reactive load sharing
5. Voltage droop

**INFO**

AVR control requires option D1.

### 1.1.4 Self-test

The GPC-3 automatically carries out a cyclical self-test at start-up. If any errors are found, they will be displayed in clear text in the display and indicated with a relay output (status output).

### 1.1.5 M-Logic (Micro PLC)

This configuration tool is part of the PC utility software which is free of charge. With this tool, it is possible to customise the application to your needs. It is possible to dedicate specific functions or logical conditions to different inputs and outputs.

### 1.1.6 Engine control and protection

With the engine control and protection option added, the GPC-3 will control the start and stop sequences of the engine and furthermore it can be used as engine protection unit providing full backup of engine shutdown channels in case the main processor fails.

### 1.1.7 CANshare

Some applications require supervision of wire break and short circuit of the load sharing lines. Since the standard analogue load sharing lines do not include any supervision, it is recommended to use the optional CANshare feature (option G9) for these applications.

### 1.1.8 Setup

Setup is easily done via a menu structure in the display (password-protected) or via the USB PC connection and the Multi-line 2 Windows -based PC utility software. The PC utility software can be downloaded free of charge from [www.deif.com/Download\\_centre](http://www.deif.com/Download_centre). The utility software offers additional features such as monitoring of all relevant information during commissioning, saving and downloading of settings and downloading of software updates.

### 1.1.9 Options

In order to perfectly match the product solution to specific applications, the functionality of the GPC-3 can be equipped with a number of available options. The options selected by the customer will be integrated in the standard GPC-3, hereby securing the same user interface unaffected by whether the application needs a highly complex or a more basic genset controller.

Refer to the paragraph "Available options" for the options available.

### 1.1.10 Approvals

The GPC-3 is UL/cUL listed.

Compliant with VDE-AR-N-4105.

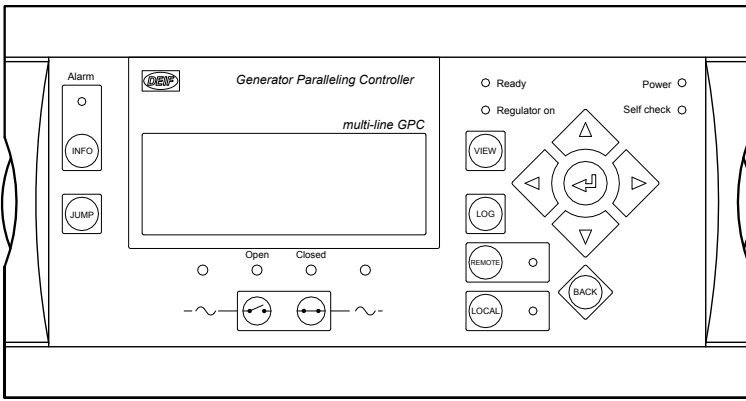
**INFO**

Refer to [www.deif.com](http://www.deif.com) for details and certificates.

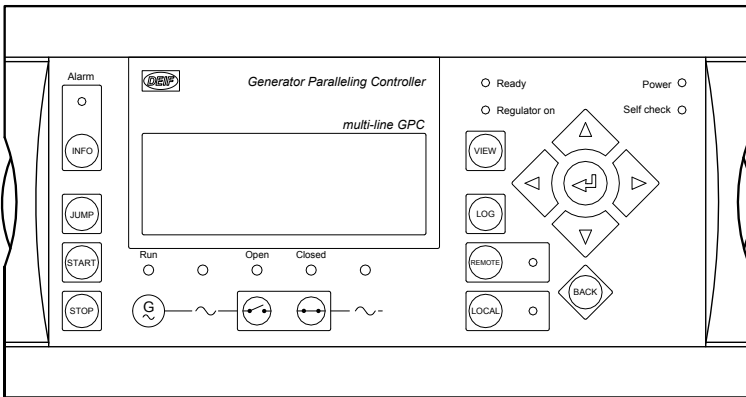
## 1.2 Contents

### 1.2.1 Displays

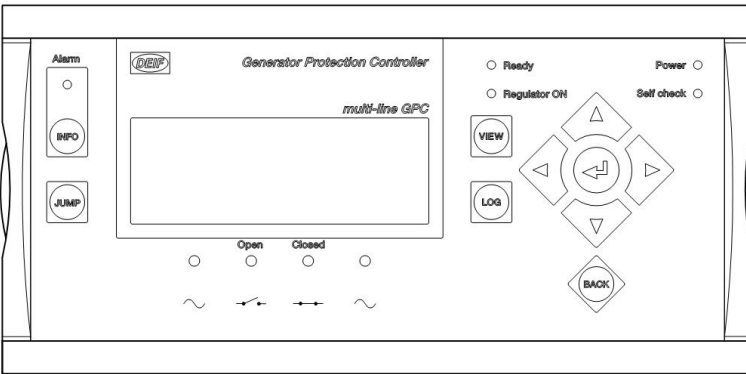
Standard delivery



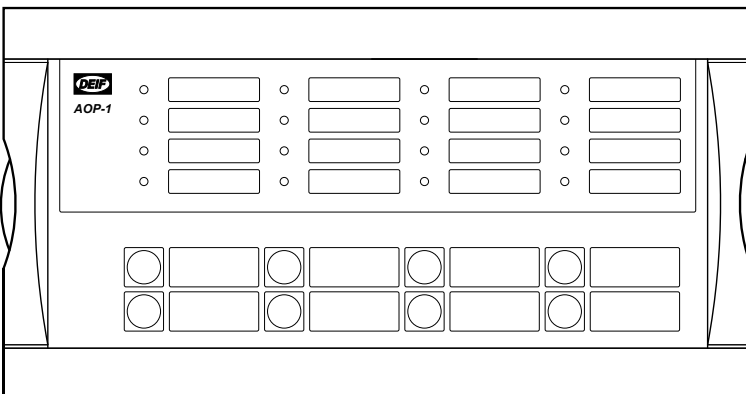
Engine and GB control (option Y1)

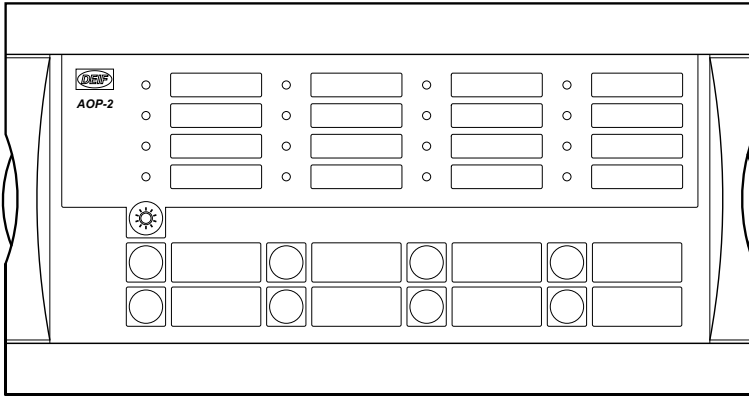


Display without local control buttons (Y11)

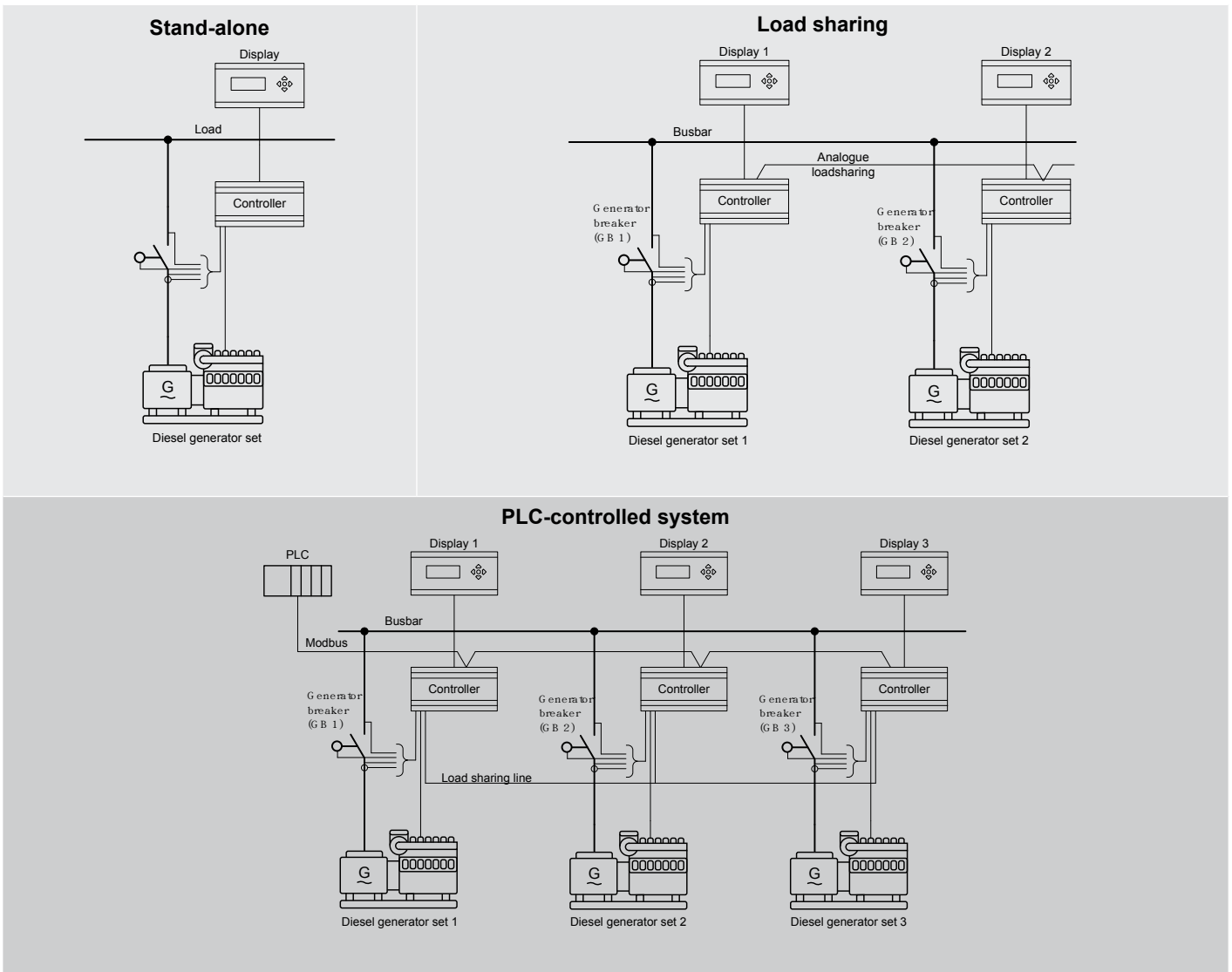


Additional operator panel - AOP-1 (option X3)





## 1.2.2 Application examples



### INFO

The GPC-3 can be used in simple or complex applications. The above shows some of the applications, but due to the flexible mode selection, the GPC-3 can be used in all applications. The GPC-3 is also designed to work with the Uni-line components such as the FAS (Full Automatic Synchroniser), should this be preferred.

### 1.2.3 Available variants

Type	Variant no.	Description	Item no.	Note
GPC-3 Diesel	06	GPC-3 Flex with display + A1 + D1 + J1	2912010030-06	
GPC-3 Diesel	07	GPC-3 without display + A1 + D1	2912010030-07	
GPC-3 Diesel	08	GPC-3 without display	2912010030-08	
GPC-3 Diesel	09	GPC-3 Flex with display + J1	2912010030-09	
GPC-3 Diesel	10	GPC-3 Flex with display + A1 + C2 + D1 + H3 + Q1 + J1	2912010030-10	
GPC-3 Diesel	11	GPC-3 Flex with display + A1 + A5 + C2 + D1 + E1 + F1 + H9.2 + J1	2912010030-11	
GPC-3 Diesel	12	GPC-3 Flex with display + A1 + D1 + F1 + N + J1	2912010030-12	

### 1.2.4 Available options

Option	Description	Slot no.	Option type	Note
<b>A</b>	<b>Mains protection package</b>			
A1	Time-dependent under-voltage (27t) Under-voltage and reactive power low (27Q) Vector jump (78) df/dt (ROCOF) (81)		Software	
A4	Positive sequence (mains voltage low) (27)		Software	
A5	Directional over-current (67)		Software	
<b>C</b>	<b>Generator add-on protection package</b>			
C2	Negative sequence voltage high (47) Negative sequence current high (46) Zero sequence voltage high (59) Zero sequence current high (50) Power-dependent reactive power import/export (40)		Software	
<b>D</b>	<b>Voltage control</b>			
D1	Constant voltage control Constant reactive power control Constant power factor control Reactive load sharing Voltage droop		Software	
<b>E and F</b>	<b>Analogue controller and transducer outputs</b>			
E1	2 × +/-25 mA (GOV/AVR or transducer)	4	Hardware	Not with E2, EF2, EF4 or EF5 AVR output requires D1
E2	2 × 0(4) to 20 mA (GOV/AVR or transducer)	4	Hardware	Not with E1, EF2, EF4 or EF5 AVR output requires D1
EF2	1 × +/-25 mA (GOV/AVR or transducer) 1 × 0(4) to 20 mA (GOV/AVR or transducer)	4	Hardware	Not with E1, E2, EF4 or EF5 AVR output requires D1
EF4	1 × +/-25 mA (GOV/AVR or transducer) 2 × relay outputs (GOV/AVR or configurable)	4	Hardware	Not with E1, E2, EF2 or EF5 AVR output requires D1
EF5	1 × PWM (Pulse Width Modulated) output for CAT GOV 1 × +/-25 mA (GOV/AVR or transducer) 2 × relay outputs (GOV/AVR or configurable)	4	Hardware	Not with E1, E2, EF2 or EF4 AVR output requires D1
EF6	2 × +/- 25 mA output 1 × PWM (Pulse Width Modulated) output	4	Hardware	Not with E1, E2, EF2 or EF4
F1	2 × 0(4) to 20 mA (transducer)	6	Hardware	Not with M13.6, M14.6 or M15.6

Option	Description	Slot no.	Option type	Note
<b>G</b>	<b>Load sharing</b>			
G9	CANshare <ul style="list-style-type: none"> <li>Digital load sharing with cable supervision</li> <li>BTB pos. feedback and supervision of up to four BTBs</li> <li>Handling of up to five load share sections</li> <li>Active and reactive load share supervision</li> <li>Dead bus closing with first-up discrimination</li> </ul>	8	Hardware	Not with H5, H6, H8.8, M13.8, M14.8, M15.8
<b>H</b>	<b>Serial communication</b>			
H2	Modbus RTU/ASCII (RS-485)	2	Hardware	Not with H3, H8.2 or H9.2
H3	Profibus DP	2	Hardware	Not with H2, H8.2 or H9.2
H5	Engine comm.: MTU (ADEC/MDEC) and CAN bus J1939 (H7)	8	Hardware	Not with G9, H7, H8.8, M13.8, M14.8 or M15.8
H6	Cummins GCS	8	Hardware	Not with G9, H5, H7, H8.8, M13.8, M14.8 or M15.8
H7	CAN bus (J1939): Caterpillar Cummins CM850/570 Detroit Diesel (DDEC) Deutz (EMR) Iveco (NEF/CURS0R) John Deere (JDEC) Perkins Scania (EMS) Scania (EMS S6) Volvo Penta (EMS) Volvo (EMS2)	7	Software	Requires M4 Not with H5
H8.X	External I/O modules	2, 8	Hardware	<b>H8.2:</b> Not with H2, H3, H8.8 or H9.2 <b>H8.8:</b> Not with G9, H5, H6, H8.2, M13.8, M14.8 or M15.8
H9.2	Modbus RTU/ASCII (RS-232) and GSM modem connection	2	Hardware	Not with H2, H3 or H8.2
<b>M</b>	<b>Engine control, digital and analogue I/Os</b>			
M4	Engine control and protection (safety system) OR I/O extension	7	Hardware	
M13.X	7 digital inputs, configurable	6, 8	Hardware	<b>M13.6:</b> Not with F1, M14.6 or M15.6 <b>M13.8:</b> Not with G9, H5, H6, H8.8, M14.8 or M15.8
M14.X	4 relay outputs, configurable	2, 6, 8	Hardware	<b>M14.6:</b> Not with F1, M13.6 or M15.6 <b>M14.8:</b> Not with G9, H5, H6, H8.8, M13.8 or M15.8
M15.X	4 analogue inputs, configurable, 4 to 20 mA	6, 8	Hardware	<b>M15.6:</b> Not with F1, M13.6 or M14.6 <b>M15.8:</b> Not with G9, H5, H6, H8.8, M13.8 or M14.8
<b>N</b>	<b>Ethernet TCP/IP communication</b>			



Option	Description	Slot no.	Option type	Note
N	Modbus TCP/IP EtherNet/IP SMS/e-mail alarms		Hardware/ software	
<b>Q</b>	<b>Measurement accuracy</b>			
Q1	Verified class 0.5		Other	
<b>T</b>	<b>Special applications</b>			
T2	Digital AVR: DEIF DVC 310 or Leroy Somer D510C		Software	
<b>Y</b>	<b>Display layout</b>			
Y1	Engine and GB control		Other	Requires M4
Y11	Display without local control buttons		Other	Not with Y1

(ANSI# as per IEEE Std. C37.2-1996 (R2001) in parenthesis).



**INFO**

Four relays are available as standard in slot #4 for GOV/AVR control. If one of the options E1, E2, EF2, EF4 or EF5 is selected, these options will replace the four relays.



**INFO**

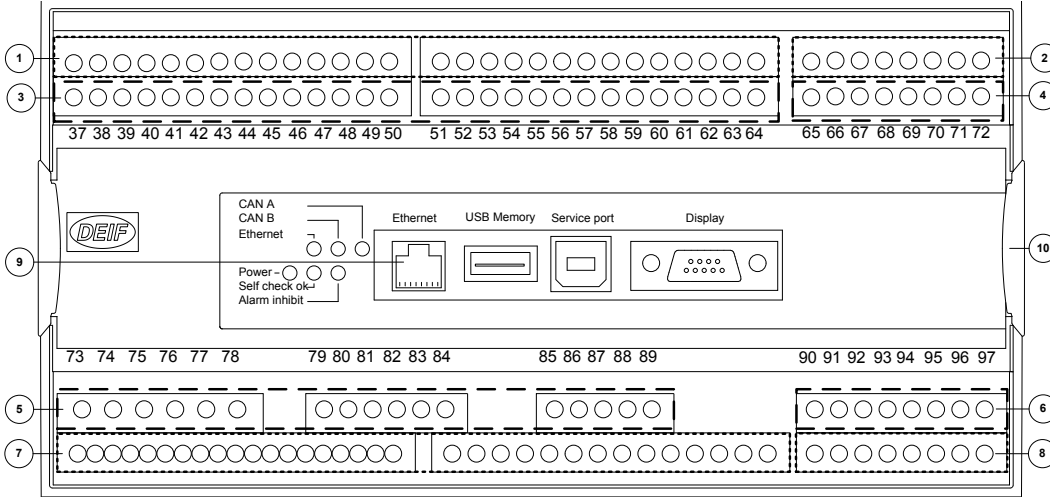
Notice that not all options can be selected for the same unit. Refer to the paragraph "Hardware overview" in this data sheet for further information about the location of the HW options in the unit.

**1.2.5 Available accessories**

Accessory	Description	Item no.	Note
<b>Operator panels</b>			
Standard Display Unit, DU-2	For connection directly to base unit with display cable	2912890030	Specify product and folio (refer to the paragraph "Display layouts")
Additional Display Unit, DU-2 (X2)	For CAN bus connection to the standard display	2912890030	Two additional displays can be used with each GPC unit
Additional Operator Panel, AOP-1 (X3)	16 configurable LEDs and eight configurable push-buttons	2912411070	Max. one AOP-1 for each display unit
Additional Operator Panel, AOP-2 (X4)	16 configurable LEDs, eight configurable buttons and one status relay. CAN bus comm.	2912411060	Five AOP-2 units can be used with each GPC unit
Display gasket for IP54 (L)	Standard is IP40	1134510010	
<b>Cables</b>			
Display cable, 3 m		1022040056	
Display cable, 6 m (J2)		1022040057	
Display cable, 1 m (J6)		1022040064	
USB cable, 3 m (J7)	For PC utility software	1022040065	
Ethernet cable, crossed, 3 m (J4)	For option N	1022040055	
RS-232 cable (J3)	For PC utility software	1022040044	
<b>Documentation</b>			

Accessory	Description	Item no.	Note
Designer's Reference Handbook (K1)		4189340587	
CD-ROM with complete documentation (K2)		2304230002	

## 1.2.6 Hardware overview



① : The numbers in the drawing above refer to the slot numbers indicated in the table below.

Slot #	Option/standard	Description
<b>1</b>		<b>Terminal 1-28, power supply</b>
	Standard	8 to 36 V DC supply, 11 W; 1 × status output relay; 5 × relay outputs; 2 × pulse outputs (kWh, kvarh); 5 × digital inputs
<b>2</b>		<b>Terminal 29-36, communication</b>
	H2	Modbus RTU (RS-485)
	H3	Profibus DP
	H8.2	External I/O modules
	H9.2	Modbus RTU/ASCII (RS-232)
	M14.2	4 × relay outputs
<b>3</b>		<b>Terminal 37-64, load sharing</b>
	Standard	13 × digital inputs; 4 × relay outputs; 1 × P load sharing line; 1 × Q load sharing line; 2 × inputs for ext. set point (GOV/AVR)
<b>4</b>		<b>Terminal 65-72, GOV/AVR/transducer outputs</b>
	Standard	4 × relay outputs
	E1	2 × +/-20 mA outputs
	E2	2 × 0(4) to 20 mA outputs
	EF2	1 × +/-20 mA output; 1 × 0(4) to 20 mA output

Slot #	Option/standard	Description
	EF4	1 × +/-20 mA output; 2 × relays
	EF5	1 × PWM output; 1 × +/-20 mA output; 2 × relays
	EF6	2 × +/- 25 mA output, 1 × PWM (Pulse Width Modulated) output
<b>5</b>		
		<b>Terminal 73-89, AC measuring</b>
	Standard	3 × generator voltage; 3 × generator current; 3 × busbar/mains voltage
<b>6</b>		
		<b>Terminal 90-97, inputs/outputs</b>
	F1	2 × 0(4) to 20 mA outputs
	M13.6	7 × digital inputs
	M14.6	4 × relay outputs
	M15.6	4 × 4 to 20 mA inputs
<b>7</b>		
		<b>Terminal 98-125, engine I/F</b>
	M4	8 to 36 V DC supply, 5 W; 1 × magnetic pickup (MPU); 3 × multi-inputs; 7 × digital inputs; 4 × relay outputs
	H7	CAN bus J1939 (requires M4)
<b>8</b>		
		<b>Terminal 126-133, engine communication, inputs/outputs</b>
	G9	CANshare
	H5	MTU (MDEC) + J1939
	H6	Cummins GCS
	H8.8	External I/O modules
	M13.8	7 × digital inputs
	M14.8	4 × relay outputs
	M15.8	4 × 4 to 20 mA inputs
<b>9</b>		
		<b>LED &amp; I/F</b>
	Standard	Display connection; service port (USB); power LED; self check LED; alarm inhibit LED; EtherNet (option N) LED
<b>10</b>		
		<b>EtherNet</b>
	N	Modbus TCP/IP; EtherNet/IP; SMS/e-mail alarms



**INFO**

There can only be one hardware option in each slot. For example, it is not possible to select option H2 and option H3 at the same time, because both options require a PCB in slot #2.



**INFO**

Besides the hardware options shown above, it is possible to select the software options mentioned in the paragraph "Available options".

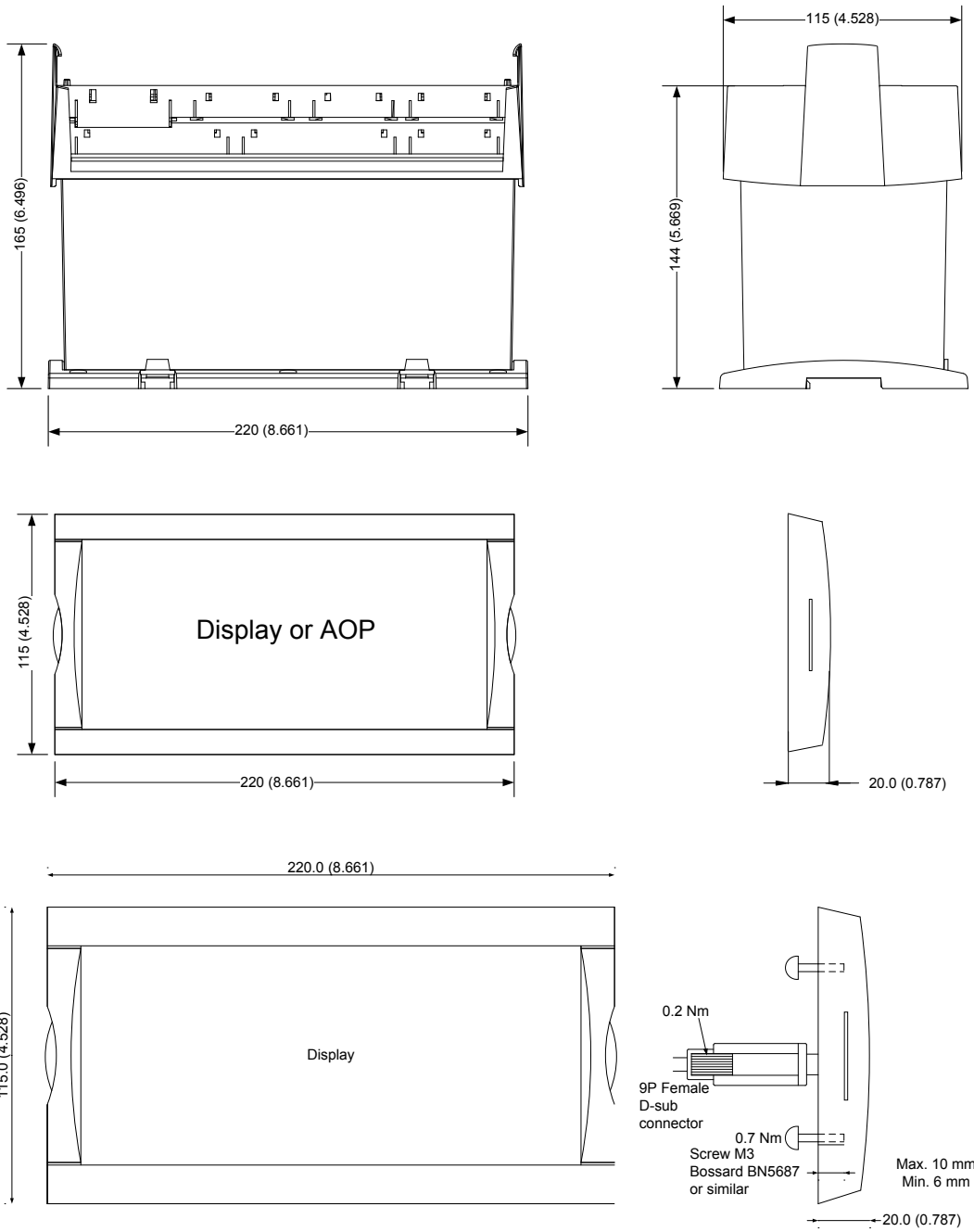
## 1.2.7 Technical specifications

	<p>Class 1.0          -25 to <u>15 to 30 to 70 °C</u>          Temperature coefficient: +/-0.2 % of full scale per 10 °C</p>
<b>Accuracy</b>	<p>Positive, negative and zero sequence alarms: class 1 within 5 % voltage unbalance          Class 1.0 for negative sequence current          Fast over-current: 3 % of 350 %*I<sub>n</sub>          Analogue outputs: class 1.0 according to total range          Option EF4/EF5: class 4.0 according to total range          To IEC/EN 60688</p>
<b>Operating temperature</b>	<p>-25 to 70 °C (-13 to 158 °F)          With option N: -25 to 60 °C (-13 to 140 °F)          (UL/cUL Listed: max. surrounding air temperature: 55 °C/131 °F)</p>
<b>Storage temperature</b>	-40 to 70 °C (-40 to 158 °F)
<b>Climate</b>	97 % RH to IEC 60068-2-30
<b>Operating altitude</b>	<p>0 to 4000 m above sea level          Derating 2001 to 4000 m above sea level:          Max. 480 V AC phase-phase 3W4 measuring voltage          Max. 690 V AC phase-phase 3W3 measuring voltage</p>
<b>Measuring voltage</b>	<p>100 to 690 V AC +/-20 %          (UL/cUL Listed: 600 V AC phase-phase)          Consumption: max. 0.25 VA/phase</p>
<b>Measuring current</b>	<p>-/1 or -/5 A AC          (UL/cUL Listed: from CTs 1 to 5 A)          Consumption: max. 0.3 VA/phase</p>
<b>Current overload</b>	<p>4 × I<sub>n</sub> continuously          20 × I<sub>n</sub>, 10 s (max. 75 A)          80 × I<sub>n</sub>, 1 s (max. 300 A)</p>
<b>Measuring frequency</b>	30 to 70 Hz
<b>Aux. supply</b>	<p>Terminals 1 and 2: 12/24 V DC nominal (8 to 36 V DC operational). Max. 11 W consumption          Battery voltage measurement accuracy: ±0.8 V within 8 to 32 V DC, ±0.5 V within 8 to 32 V DC @ 20 °C          Terminals 98 and 99: 12/24 V DC nominal (8 to 36 V DC operational). Max. 5 W consumption          0 V DC for 10 ms when coming from at least 24 V DC (cranking dropout)          The aux. supply inputs are to be protected by a 2 A slow-blow fuse</p>
<b>Digital inputs</b>	<p>Optocoupler, bi-directional          ON: 8 to 36 V DC          Impedance: 4.7 kΩ          OFF: &lt;2 V DC</p>
<b>Analogue inputs</b>	<p>0(4) to 20 mA          Impedance: 50 Ω. Not galvanically separated          RPM (MPU): 2 to 70 V AC, 10 to 10000 Hz, max. 50 kΩ</p>
<b>Multi-inputs</b>	<p>0(4) to 20 mA: 0 to 20 mA, +/-1 %. Not galvanically separated          Binary: max. resistance for ON detection: 100 Ω. Not galvanically separated          Pt100/1000: -40 to 250 °C, +/-1 %. Not galvanically separated. To IEC/EN 60751          RMI: 0 to 1700 Ω, +/-2 %. Not galvanically separated          V DC: 0 to 40 V DC, +/-1 %. Not galvanically separated</p>
<b>Relay outputs</b>	<p>Electrical rating: 250 V AC/30 V DC, 5 A. (UL/cUL Listed: 250 V AC/24 V DC, 2 A resistive load)          Thermal rating @ 50 °C: 2 A: continuously. 4 A: t<sub>on</sub> = 5 s, t<sub>off</sub> = 15 s          (Unit status output: 1 A)</p>

<b>Open collector outputs</b>	Supply: 8 to 36 V DC, max. 10 mA
<b>Analogue outputs</b>	0(4) to 20 mA and +/-25 mA. Galvanically separated. Active output (internal supply). Load max. 500 Ω. (UL/cUL Listed: max. 20 mA output) Update rate: transducer output: 250 ms. Regulator output: 100 ms
<b>Analogue load sharing lines</b>	-5 to 0 to +5 V DC. Impedance: 23.5 kΩ
<b>Galvanic separation</b>	Between AC voltage and other I/Os: 3250 V, 50 Hz, 1 min Between AC current and other I/Os: 2200 V, 50 Hz, 1 min Between analogue outputs and other I/Os: 550 V, 50 Hz, 1 min Between binary input groups and other I/Os: 550 V, 50 Hz, 1 min
<b>Response times</b> (Delay set to min.)	<p><b>Busbar:</b></p> <p>Over-/under-voltage: &lt;50 ms Over-/under-frequency: &lt;50 ms Voltage unbalance: &lt;200 ms</p> <p><b>Generator:</b></p> <p>Reverse power: &lt;200 ms Over-current: &lt;200 ms Fast over-current: &lt;40 ms Over-/under-voltage: &lt;200 ms Over-/under-frequency: &lt;300 ms Overload: &lt;200 ms Current unbalance: &lt;200 ms Voltage unbalance: &lt;200 ms React. power import: &lt;200 ms React. power export: &lt;200 ms Overspeed: &lt;400 ms Digital inputs: &lt;250 ms Emergency stop: &lt;200 ms Multi-inputs: &lt;800 ms Wire failure: &lt;600 ms</p> <p><b>Mains:</b></p> <p>df/dt (ROCOF): &lt;130 ms (4 periods) Vector jump: &lt;40 ms Positive sequence: &lt;60 ms Time-dependent under-voltage, <math>U_{I&lt;}</math>: &lt;50 ms Under-voltage and reactive power low, <math>U_{Q&lt;}</math>: &lt;250 ms</p>
<b>Mounting</b>	DIN-rail mount or base mount with six screws
<b>Safety</b>	To EN 61010-1, installation category (over-voltage category) III, 600 V, pollution degree 2

	To UL 508 and CSA 22.2 no. 14-05, over-voltage category III, 600 V, pollution degree 2
<b>EMC/CE</b>	To EN 61000-6-2, EN 61000-6-4, IEC 60255-26
<b>Vibration</b>	3 to 13.2 Hz: 2 mm <sub>pp</sub> . 13.2 to 100 Hz: 0.7 g. To IEC 60068-2-6 & IACS UR E10 10 to 60 Hz: 0.15 mm <sub>pp</sub> . 60 to 150 Hz: 1 g. To IEC 60255-21-1 Response (class 2) 10 to 150 Hz: 2 g. To IEC 60255-21-1 Endurance (class 2)
<b>Shock (base mount)</b>	10 g, 11 ms, half sine. To IEC 60255-21-2 Response (class 2) 30 g, 11 ms, half sine. To IEC 60255-21-2 Endurance (class 2) 50 g, 11 ms, half sine. To IEC 60068-2-27
<b>Bump</b>	20 g, 16 ms, half sine. To IEC 60255-21-2 (class 2)
<b>Material</b>	All plastic materials are self-extinguishing according to UL94 (V1)
<b>Plug connections</b>	AC current: 0.2 to 4.0 mm <sup>2</sup> stranded wire. (UL/cUL Listed: AWG 18) AC voltage: 0.2 to 2.5 mm <sup>2</sup> stranded wire. (UL/cUL Listed: AWG 20) Relays: (UL/cUL Listed: AWG 22) Terminals 98 to 116: 0.2 to 1.5 mm <sup>2</sup> stranded wire. (UL/cUL Listed: AWG 24) Other: 0.2 to 2.5 mm <sup>2</sup> stranded wire. (UL/cUL Listed: AWG 24) Display: 9-pole Sub-D female Service port: USB A-B
Tightening torque	Refer to the "Installation Instructions"
<b>Protection</b>	Unit: IP20. Display: IP40 (IP54 with gasket: option L). (UL/cUL Listed: Type Complete Device, Open Type). To IEC/EN 60529
<b>Governors</b>	Multi-line 2 interfaces to all governors including GAC, Barber-Colman, Woodward and Cummins. See interfacing guide at <a href="http://www.deif.com">www.deif.com</a>
<b>Approvals</b>	UL/cUL Listed to UL508. UL/cUL Recognized to UL2200 Compliant with VDE-AR-N-4105
<b>UL markings</b>	Wiring: use 60/75 °C copper conductors only Mounting: for use on a flat surface of type 1 enclosure Installation: to be installed in accordance with the NEC (US) or the CEC (Canada)  <b>AOP-2:</b> Maximum ambient temperature: 60 °C Wiring: use 60/75 °C copper conductors only Mounting: for use on a flat surface of type 3 (IP54) enclosure. Main disconnect must be provided by installer Installation: to be installed in accordance with the NEC (US) or the CEC (Canada)  <b>DC/DC converter for AOP-2:</b> Wire size: AWG 22-14  Refer to the "Installation Instructions"
Tightening torque	
<b>Weight</b>	Base unit: 1.6 kg (3.5 lbs.) Option J1/J3/J6: 0.2 kg (0.4 lbs.) Option J2: 0.4 kg (0.9 lbs.) Display: 0.4 kg (0.9 lbs.)

## 1.2.8 Unit dimensions in mm (inches)



## 1.2.9 Order specifications

### Variants

Mandatory information			Additional options to the standard variant				
Item no.	Type	Variant no.	Option	Option	Option	Option	Option

Example:

Mandatory information			Additional options to the standard variant				
Item no.	Type	Variant no.	Option	Option	Option	Option	Option
2912010030-06	GPC-3 Diesel	06	A1	M4	Y1		

**Accessories:**

Mandatory information		
Item no.	Type	Accessory

Example:

Mandatory information		
Item no.	Type	Accessory
1022040055	Accessory for GPC-3	Ethernet cable - 3 m crossed (J4)

### 1.2.10 Disclaimer

DEIF A/S reserves the right to change any of the contents of this document without prior notice.

The English version of this document always contains the most recent and up-to-date information about the product. DEIF does not take responsibility for the accuracy of translations, and translations might not be updated at the same time as the English document. If there is a discrepancy, the English version prevails.