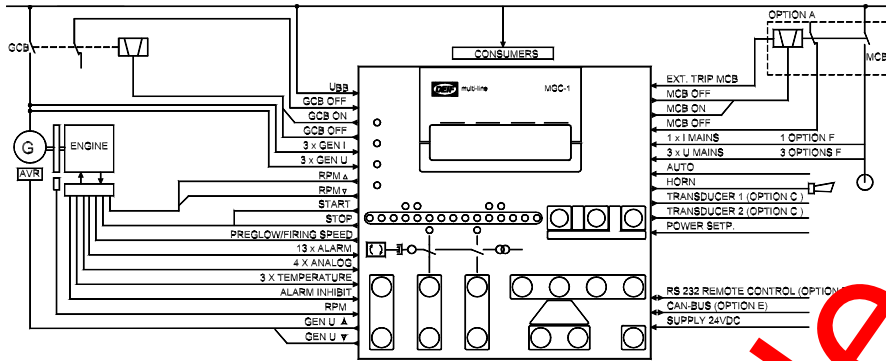




## Type MPC-1



### Options

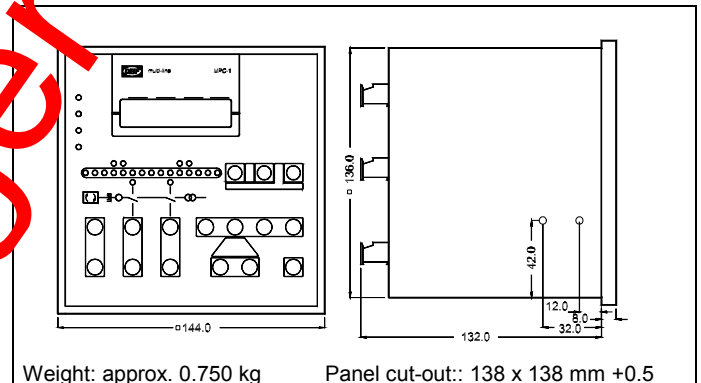
- Option A:** Mains circuit breaker
- dynamic synchronisation of mains breaker
- Option B:** Analog speed/AVR control
- Analog signal  $\pm$  replacing governor outputs
  - B1: Analog speed governor output
  - B2: Analog AVR
  - B3: Analog speed governor and AVR
- Option C:** Analog transducer outputs
- 2 x 0/4...20mA output representing selected electrical values (not applicable if option E is selected)
- Option D:** Remote control
- RS 232 remote control of the MPC-1 with Siemens 3964, RK512 with standard telegram.
- Option E:** Power management
- automatic start/stop/connection/disconnection of up to 8 generating sets running in parallel
  - equal load sharing between running generators
  - number of generating sets running, depending on the mains power transfer (Option F only)
  - number of generating sets running, depending on the power consumption, in island mode (not applicable if option C is selected).
- Option F:** Mains power transfer
- mains kW calculated on the basis of average phase current (3-phase symmetrical load), used as generator power set point control. Constant power supply to the main or power consumption from mains (peak shaving)

### Technical specifications

- Accuracy:** Class 1.0, to IEC 688
- Operating temp.:** -20...70°C, -20...60°C (display)
- Meas. voltage:** 100/110V AC (1)  
(min. measurable volt.: 5V AC)  
450V AC  $\pm$ 20% (4)  
(min. measurable volt.: 10V AC)
- Meas. current:** -/1 or -/5A, consumption:  
max. 0.1VA per phase
- Max. overcurrent:** 2 x  $I_{nom}$  continuously  
20 x  $I_{nom}$  for 1 s
- Meas. frequency:** 30...70Hz
- Aux. supply:** 24V DC -25/+30%,  
consumption: max. 10W
- Binary inputs:** Input voltage: 18...250V AC/DC for "ON" condition.  
Input impedance: 68k $\Omega$
- Relay outputs:** Freq. and volt. controller relays:  
Contact rating: 8A / 250V AC  
Others:  
Contact rating: 5A / 250V AC  
Max. voltage: 380V AC.  
Mech. life: min. 100,000 change-overs
- Analog inputs:** Freely scaleable, 12 bit  
Pt100: IEC 751, PTC: 0...15k $\Omega$   
0/4...20mA: impedance: max. 250 $\Omega$

- Analog outputs:** Freely scaleable, 12 bit  
0... $\pm$ 5V; impedance: 1k $\Omega$   
4...20mA; max. load 400 $\Omega$  / 24V DC
- Safety:** To EN 61010-1 Installation Cat. III, 300V.  
Pollution degree 2.
- Galv. separation:** Between binary input groups, and between binary inputs and remaining circuits.  
Between all relay outputs and between relay outputs and remaining circuit.
- EMC:** To EN 50081-1/2 and EN 50082-1/2
- Connections:** Max. 2.5 mm<sup>2</sup> (1.9 mm<sup>2</sup> for communication) and analog outputs
- Protection:** IP21, IP54 (front) to IEC 529 and EN 60529.

### Dimensions



### Order specifications

Type	Voltage	CT	Options
Basic unit, aux. supply: 24V DC			
VT -/110V AC (-/100V AC)	1		
Voltage direct (max. 440V AC)	4		
CT -/5A		5	
CT -/1A		1	
Options			
Example: MPC-1-1-1-A-C-F	MPC-1	VT	-/1A A, C and F

Due to our continuous development we reserve the right to supply equipment which may vary from the described.



DEIF A/S, Frisenborgvej 33  
DK-7800 Skive, Denmark

Tel.: +45 9614 9614, Fax: +45 9614 9615

E-mail: deif@deif.com, URL: www.deif.com

