



**REGULATEURS EUROPA**

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# Digital Control DC 8

## DC 8

### DATA SHEET

#### Description

The new DC 8 electronic governor operates in combination with the RE 2800 actuators. It provides speed governor functions as well as extended load sharing functions. Applications of the DC 8 range from mains or island parallel gensets to diesel or gas engines in industrial or marine applications. DC 8 control allows any mode of operation as running at fixed or variable speed, isochronous speed control or speed control with droop.

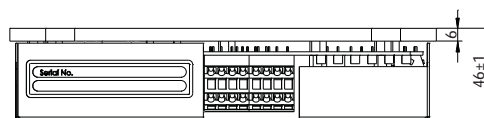
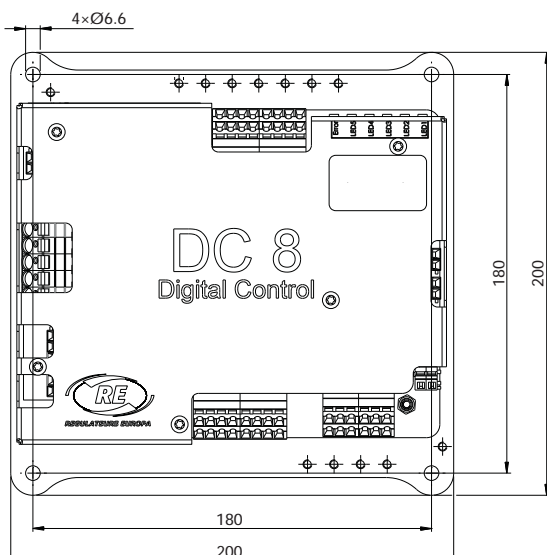
The setpoint can be transmitted as a current, voltage, PWM or CAN signal to the control unit. Operating states of the system are supplied as analogue and digital output signals. For communication, DC 8 provides a galvanically insulated CAN bus interface, that meets Bosch CAN Spec. 2.0B standard or ISO11898, plus HEINZMANN's serial interface for connection with DcDesk 2000. Several error recognition, indication and reporting functions are provided. Major alarms and status indications are displayed by LEDs on the housing. DC 8 software is designed for universal use while providing extra functionality. The firmware allows configuration of input/output allocation as well as activation and parameterisation of functions.



#### Features

- Speed governor
- Integrated load control
- CAN load sharing line
- kW control mode, mains parallel
- Trip circuit breaker
- Limiting functions depending on speed or boost pressure
- Indifference to slow voltage changes of the supply
- Individually configurable I/Os
- Galvanically insulated customer interfaces
- Engine shutdown protection
- Engine monitoring functions
- Error logging

#### Dimensions



# Applications

- Genset application, mains & island parallel
- Industrial and marine engine application

## Technical data

<b>General specification</b>	
Supply voltage	18 ... 32 VDC, nom. 24 VDC
Steady state current	approx. 3.5 A
Protection grade	IP00 for use in cabinet environment
Ambient temperature	-40 ... 80 °C
Storage temperature	-40 ... 85 °C
Permissible ambient humidity	< 98 % at 55 °C
Vibration	ICE60068-2-6 2.0 Hz ... 25 Hz at 1.6 mm 25 ... 100 Hz at 4g max.
EMC requirements: Immunity Emission	IEC61000-2, -3, -4, -5, -6 CISPR 16-2

<b>I/O specification</b>	
Pickups	2 × inductive
Sensor supplies	2 × 24 V, 1 × 5 V
Actuator output	0 ... 1000 mA
Analogue inputs	AI-1, galvanically insulated 4 ... 20 mA configurable
	AI-2 & AI-3, galvanically insulated 0 ... 5 V / 0 ... 10 V
	AI-4 ... AI-6, not insulated 4 ... 20 mA / 0 ... 5 V / 0 ... 10 V
	Temperature, galvanically insulated 2 × Pt1000 / NTC
Analogue outputs	AO-1, galvanically insulated 4 ... 20 mA
	PWM, galvanically insulated 10 ... 90 %, 50 ... 500 Hz
Digital inputs	DI-1 ... DI-6, galvanically insulated
	DI-7 & DI-8, not insulated
Digital outputs	DO-1 ... DO-3, galvanically insulated
	DO-4 & DO-5, not insulated
Optical status interface	6 × status LEDs
Communication	1 × CAN galvanically insulated
	1 × CAN not insulated
	CAN protocol: HEINZMANN Can protocol, CANopen, DeviceNet, SAE J1939, other protocols on request
Configuration tool	HEINZMANN serial interface for HEINZMANN DcDesk2000

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