

High-speed engine controls
for small engines

PANDAROS DC 6

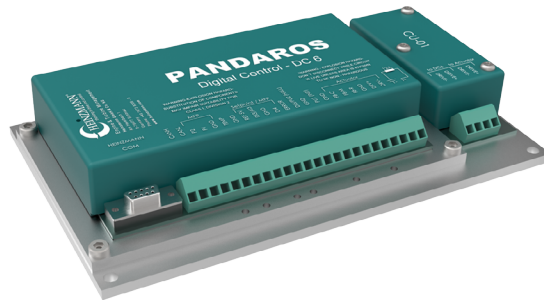
DATA SHEET

Description

DC 6 is HEINZMANN's second generation of digital PANDAROS controls for small-sized high-speed engines.

This highly efficient speed governor is based on a 16-bit microprocessor. The units offer a great variety of analog and digital inputs and outputs and two separate input channels for inductive or Hall type speed pick-ups. Integrated CAN provides external communication.

DC 6 is able to drive direct working actuators or equipped with the extension module CU-01 gear-type actuators as well. Combined with appropriate actuators from HEINZMANN's product range, setting torques up to 30 Nm are possible. Besides that, DC 6 can be applied directly with Bosch EDC™ pumps. DC 6 control units provide the ideal solution for small high-speed engines and turbine applications. Their advanced hardware is fully compatible with any predecessor and any DC 6 software versions can be used without any change.



Features

Extended generator and vehicle application

Additional analogue inputs for synchronising and isochronous load sharing

Fuel limitation depending on several parameters for optimal load factor and reduction of smoke to a minimum during start-up and regular operation

Governor and sensor monitoring, speed dependent monitoring of oil pressure with or without engine stop for engine protection

CAN communication

Easy adaption of governors dynamic characteristic by parameterisation with HEINZMANN DcDesk communication tool

Applicable Actuators

- StG 2005/2010/2040/2080 for engine power 100 ... 400 kW
- StG 6/10 for engine power 600 ... 1000 kW
- StG 16/30/40 for engine power 1600 ... 4000 kW
- StG 2005 DP/2040 DP for direct mounting on fuel pump
- Bosch EDC™

Applications

- Generator sets or power stations
- Locomotives, heavy duty vehicles
- Special vehicles, agricultural machines
- Gas, water and steam turbines
- Marine applications, including twin engine operation

Certificates

Certificates on request

Technical data

General specification

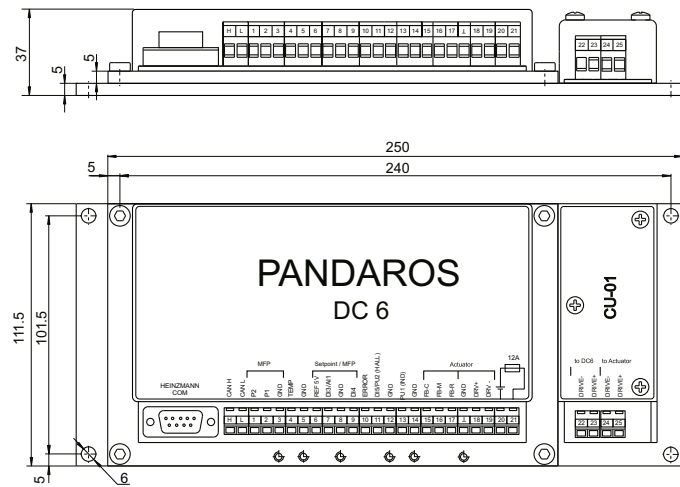
Supply voltage	nom. 24 VDC or nom. 12 VDC (9 ... 33 VDC)
Current consumption control unit	0.3 A (plus actuator current)
Degree of protection	IP00 or IP55
Operating temperature	-40 ... +80 °C
Vibration	7g / 10 ... 400 Hz
Permissible ambient humidity	< 95 % rel. at 55 °C
Weight	1.2 kg (IP00), 3 kg (IP55)
Wiring	spring cage terminal optional (IP00) / plug due to application (IP55)

I/O specification

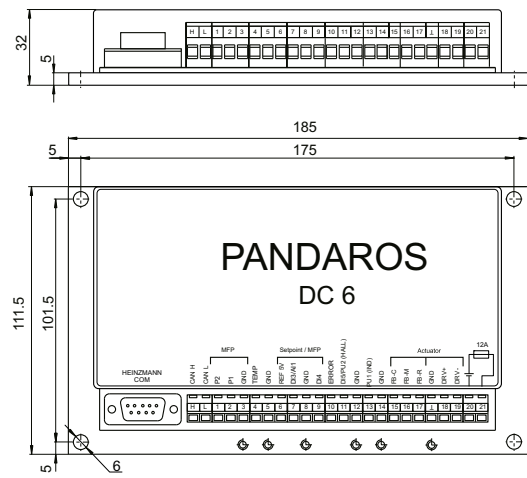
Inputs	Pickup	1	Hall type, 10 ... 9000 Hz
	Pickup	1	Inductive, 0.5 ... 30 Vpp / 50 ... 9000 Hz
	Analogue	3	0 ... 5 V or 4 ... 20 mA
	Temperature	1	PT200, PT1000, NTC, NI1000
	Digital 1 / PWM	3	24 VDC, (< 1 V / > 5 V)
	Digital 2	1	24 VDC, (< 1 V / > 5 V)
Outputs	Analogue	2	4 ... 20 mA
	Digital / PWM	2	0.3 A, low side, 10 ...90 %, short circuit protected
	Sensor supply	1	5.0 VDC, 50 mA max.
	Alarm output 1	1	0.3 A, low side, short circuit protected
Communication interface	On-board	1	Heinzmann Service Interface
	On-board	1	CAN 2.0B

Dimensions

IP00 with coil unit CU-01



IP00



IP55, any version

