

PANDAROS DC 6-200

DATA SHEET

Description

The DC 6-200 is HEINZMANN's low current version of digital PANDAROS controls.

This highly efficient speed governor is based on a 16-bit microprocessor. The DC 6-200 control unit offers two separate speed pickup inputs, inductive or Hall type.

Integrated CAN provides external communication. DC 6-200 is able to drive proportional electric mechanical actuators. It is ideal for control coils for example.

With assisting actuator systems of hydraulic type for instance torques up to 20 Nm are possible.

DC 6-200 hardware is well adapted for small actuator currents therefore it comprises an appropriate software version.



Actuators

PANDAROS DC 6-200 is the control device for small efficient actuators that require drive currents up to 200 mA.

Applications

- ➔ Stationary applications, e.g. generator sets or power stations
- ➔ Dual fuel applications
- ➔ Gas, water and steam turbines
- ➔ Heat pumps

Certificates

Certificates on request

Features

Extended generator and vehicle application

Two separate speed pickups possible

Additional analogue inputs for synchronising and isochronous load sharing

Overspeed protection

Start fuel limitation regarding engine temperature for optimum fuel quantity during start and run-up phase and reduction of start-up smoke to a minimum

PID mapping of governors dynamic characteristic according to speed, temperature and load

Idling and maximum speed control, velocity limitation and regulation for vehicle applications

Fuel limitation depending on speed, boost pressure, temperature and further parameters for optimal load factor and in order to protect the engine

Speed dependent monitoring of oil pressure with or without engine stop for engine protection

Communication via CAN

Easy parameterisation via HEINZMANN DcDesk 2000 communication tool or hand programmer

Governor and sensor monitoring

Error and operating data logging

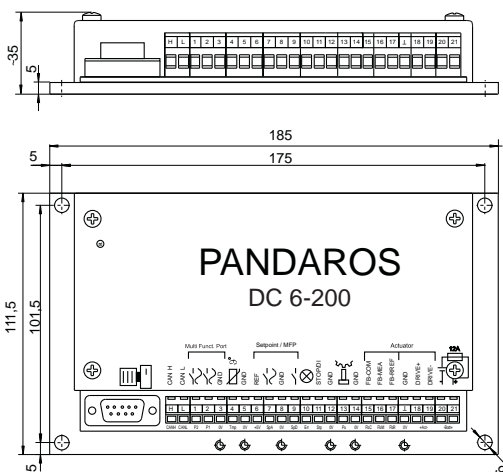
Technical data

General specification	
Supply voltage	24 VDC, 12 VDC
Operating voltage range	9 ... 33 VDC
Supply current	300 mA (plus actuator current)
Operating temperature range	-40 ... 80 °C
Protection level	IP00 or IP55
Connections	IP00, spring cage terminal; IP55, plugs due to application
Vibration	7 g / 10 ... 400 Hz
Humidity	95 % rel. humidity at 55 °C
Insulation	> 1 MΩ at 48 VDC
Weight	IP00: 1.2 kg IP55: 3 kg

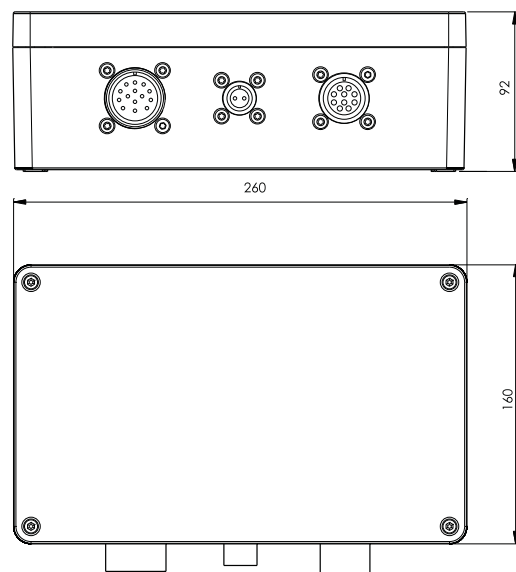
I/O specification			
Inputs	Pickup	1	Hall type, 10 ... 9000 Hz
	Pickup	1	Inductive sensors, 0.5 ... 30 Vpp / 50 ... 9000 Hz
	Analogue	3	0 ... 5 V, 0 ... 10 V or 4 ... 20 mA
	Temperature	1	PT1000, NTC
	Digital 1 / PWM	3	24 VDC ($U_{low} < 1 V$; $U_{high} > 5 V$; $f_{PWM} 50 \dots 500$ Hz)
	Digital 2	1	24 VDC ($U_{low} < 1 V$; $U_{high} > 5 V$)
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
Actuator drive	PWM	1	20 ... 200 mA for coil resistance max. 40 Ω

Dimensions

IP00



IP55, any version



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