DG 2800.14

DATA SHEET

Description

The DG 2800.14 governor is a microprocessor controlled hydraulic governor for diesel or dual fuel engines and steam turbines. It consists of the well proven REGULATEURS EUROPA 2800 series actuator and the HEINZMANN digital DC 14 governor. The digital governor controls the proportional solenoid of the actuator by means of a current signal. DG 2800.14 includes an integrated speed pick-up, however if required an external pick-up can be connected. The DC 14 digital governor provides state-of-the-art speed control (steady state speed wander < 0.1 % at nominal speed), start fuel limit and functionality typical for generator application, including isochronous load sharing (optional).

The software allows to set the gear ratio between crankshaft and governor drive. In this way all speed related settings in the software refer to “engine rpm”. The DC 14 digital governor is set-up with the user-friendly interface program DcDesk. Also 20 selectable parameters can be edited using the unit’s key pad and display (password protected).

Application range

- Medium-speed diesel engines
- Dual-fuel engines
- Steam turbines

Certificates

Marine certification: DNV GL / ABS

Features

- Hydraulic actuator with integrated electronic governor
- Compact size envelope
- Fully interchangeable with UG range governors
- Low maintenance
- High reliability
- Self-contained oil supply
- Serrated or keyed drive shafts available

Monitoring

- All alarms result in the common alarm output
- All analogue inputs supervised
- Pick-up supervised
**Dimensions**

Ambient temperature: -40 ... +70 °C

Degree of protection: IP65

Speed control accuracy: ≤ 0.1 % steady state at nominal speed

Work output nominal:
- 15 ft. lbf. (29.5 joules)
- 30 ft. lbf. (40.5 joules)

Torque (increase fuel):
- 24.4 ft. lbf. (35.5 Nm)
- 49.5 ft. lbf. (67 Nm)

Torque (decrease fuel):
- 17.3 ft. lbf. (23.9 Nm)
- 38.5 ft. lbf. (52 Nm)

Output shaft angular movement:
- 46.7 degrees max.
- Full travel 28 degrees (0 – 100 % load)

Output shaft:
- 5/8 inch 36 SAE serrations
- 3/4 inch 48 SAE serrations

Drive speed: 300 to 2000 rpm

Direction of rotation: either

Weight: approx. 30 kg

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Subject to alterations. ©REGULATEURS EUROPA B. V., 2020

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**Technical data**

<table>
<thead>
<tr>
<th>Power supply</th>
<th>2x redundant supply inputs with failure alarm, 18 ... 32 VDC, 24 VDC nominal</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power consumption</td>
<td>max. 1.5 A</td>
</tr>
<tr>
<td>Digital inputs</td>
<td>7x active high or active low, isolated, with common ground or supply, functionality configurable via software</td>
</tr>
<tr>
<td>Analogue inputs</td>
<td>3x 4 ... 20 mA, 1x 0 ... 5 VDC or PWM, isolated, with common ground, functionality configurable via software</td>
</tr>
<tr>
<td>Digital outputs</td>
<td>2x 24 VDC max. 100 mA, isolated, with common ground, functionality configurable via software</td>
</tr>
<tr>
<td>Analogue outputs</td>
<td>1x 4 ... 20 mA, isolated, functionality configurable via software</td>
</tr>
<tr>
<td>Speed pick-up</td>
<td>Fitted in the actuator, provision to connect an external speed pick-up instead is available, pick-up supply 12 VDC</td>
</tr>
<tr>
<td>Communication</td>
<td>CAN bus 2.0B ISO 11898, RS232 9-pole sub-D connector for programming</td>
</tr>
<tr>
<td>Configuration tool</td>
<td>HEINZMANN DcDesk 6 or DcDesk 2000</td>
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</tbody>
</table>

All connections by means of screwless terminals.