

July 2019

Woodward UG 40 DI Replacement

UG 40 MAS + Governor



Woodward UG40-DI Replacement - UG40 MAS+ - Governor with Digital Interface



Turner ECS has developed the UG40 MAS+ governor as a direct replacement/upgrade for the obsolete Woodward UG40-DI governor.

The Woodward UG40-DI (Digital Interface) was a product designed to have all the features of the traditional UG40 governor, but with a digital interface for remote speed setting, start fuel limiting and shutdown.

Turner ECS has designed, tested and validated a solution to replace the obsolete UG-40DI governor. This is accomplished by modifying the UG40-DI governor, keeping the proven mechanical-hydraulic reliability of the UG-40DI, and by adding the electronic reliability of the Woodward MAS driver box.

The following changes were made to the UG40-DI design:

- E-box functionality and fuel limiter assembly is replaced by a modified UG40 governor and a small cabinet
- The start fuel limiter assembly is replaced with an on/off adjustable solenoid that provides the start limiter functionality

Turner ECS will install and test the UG40 MAS+ governor onboard, delivering a full service after which the upgraded engine is ready for operation.

ADVANTAGES

The upgrade of the UG-40DI will provide the following advantages to end users:

- Keep existing UG40
- 18 months warranty
- Proven UG40 parts
- No linkage adjustment
- Form and fit will remain identical
- Same dynamic performance
- Keep fuel rack sensor
- Functionality remains the same
- Quick and easy modification



Woodward UG40-DI Replacement - UG40 MAS+ - Governor with Digital Interface

Accessories

Cable Set



Cables are included to connect the UG40 MAS+ to the control box and to connect the control box to the MAK engine control cabinet.

Mounting Bracket

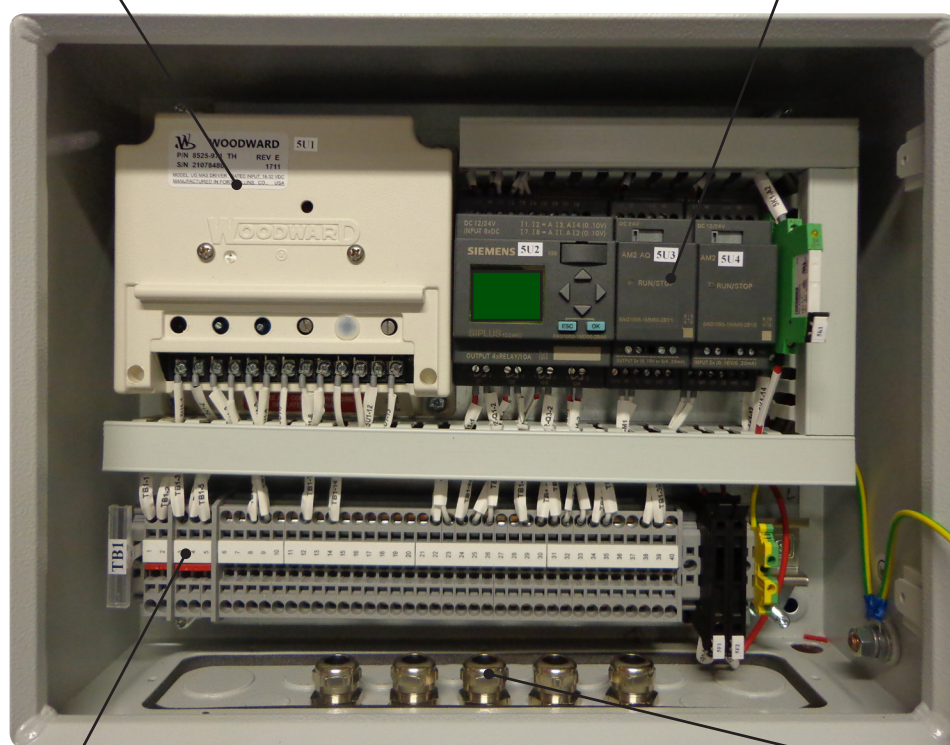


For easy installation close to the UG40 MAS+ governor, a mounting bracket is included to mount the control box.

Control Box

MAS Driver Box

Programmable Logic Controller



Terminal Strip

Wiring Conduits

FUNCTIONALITY

- Ballhead governor
- Adjustable start fuel limiter
- Alarm contact to limit speed setting
- Adjustable ramp rates for speed setting

OPTIONS

The UG40 MAS+ can be ordered in the following configurations, always on exchange basis:

Kit #1:

- Top cover & E-box
- Control box
- Cables and bracket
- Installation & testing

Kit #2:

- Overhauled governor
- Top cover & E-box
- Control box
- Cables and bracket
- Installation & testing

Turner Range of Services

LSTK Projects, Retrofits & Upgrades
Turner ECS delivers reliable retrofit solutions for a wide range of prime movers and other applications. This includes lump sum turnkey projects on turbines and compressors.

Genuine Parts & Service Exchange
Turner ECS has the largest stock of parts, service exchange governors and electronics in Europe and can provide a fast turnaround service.

Product Training
Turner ECS can provide official Woodward product training covering both theoretical and practical training on a wide range of Woodward products.

Electronic Repair & Mechanical Governor Overhaul Service
Turner ECS provides a comprehensive overhaul and repair service for electronic, mechanical and hydraulic governors.

World Wide Field Service
Turner ECS field service engineers and technicians provide comprehensive solutions for commissioning and on-site repair.

Service Contracts
Turner ECS provides long term service contracts to support users with Woodward governors and/or control products and electronic control systems.

ROTATING EQUIPMENT CONTROL SOLUTIONS DELIVERED ACROSS EUROPE & THE MIDDLE EAST

Turner ECS is an official Woodward Channel Partner with offices located in:

- The Netherlands
- England
- Germany
- Italy
- Abu Dhabi
- Qatar
- Saudi Arabia

Turner ECS also operates and manages an extensive network of official agents throughout Europe & the Middle East

CONTACT INFORMATION

Turner Engine Control Solutions B.V.
Dirk Storklaan 76
2132 PX Hoofddorp
The Netherlands

Mail: sales@turner-ecs.com
Tel: +31 (0) 23 566 23 00
Fax: +31 (0) 23 564 27 27
Web: www.turner-ecs.com

