MANUFACTURER DOCUMENT PACKAGE

Manufacturer's Manual

Reference package for procurement and maintenance review

WOODWARD

9907-167

OPERATOR INTERFACE

Used with the applicable Woodward 505E digital governors configuration.

REFERENCE PACKAGE

OFFICIAL DOCUMENT

Selected official manufacturer pages follow this cover.

Source: Woodward 505E Digital Governor Manual 85018V1

Chapter 1.
General Information

Introduction

This manual (85018) describes the Woodward 505E Digital Governor for steam turbines with controlled extraction and/or admission pressure control. English versions are 9907-165, 9907-166, and 9907-167. The option charts below show the differences between the part numbers. Volume 1 of this manual provides installation instructions, describes the control, and explains the configuration (programming) and operating procedures. Volume 2 includes notes on applying the control to specific applications, Service mode information, and 505E hardware specifications.

This manual does not contain instructions for the operation of the complete turbine system. For turbine or plant operating instructions, contact the plant-equipment manufacturer.

Manual 85017 describes the 505 Digital Governor for steam turbines without extraction pressure control.

Part Number Options

Part Number	Power
9907-165	HVAC (180–264 Vac)
9907-166	AC/DC (88–132 Vac) or (90–150 Vdc)
9907-167	LVDC (18–32 Vdc)

Optional Bulkhead Mounting Box (NEMA 4X) P/N 8923-439

505 controllers now utilize a special polyacrylate conformal coating material to coat and protect their internal circuit boards from corrosive environments. This new polyacrylate material replaces the previous silicon conformal coating and provides an improved barrier between board components and sulfur-based gases. 505 controls that have this coating will have a label on the side stating “SULFUR RESISTANT CONFORMAL COATED”. All 505 controllers shipped from Woodward with the revision letters listed below, or subsequent letters, were shipped with the new polyacrylate conformal coating material:

Table 1-1. 505s with Polyacrylate Coated Boards

Part Number	Revision	Label on 505
9907-165	V	9907-165V
9907-166	V	9907-166V
9907-167	T	9907-167T