THE STANDARD IN STEAM TURBINE CONTROL ... JUST GOT BETTER

The NEW 505 and 505-XT are Woodward's line of standard off-the-shelf controllers for operation and protection of industrial steam turbines. These user configurable steam turbine controllers with integrated OCP (operator control panel) include specifically designed screens, algorithms, and event recorders to simplify use in controlling industrial steam turbines or turbo-expanders, driving generators, compressors, pumps, or industrial fans.

Now is the time to modernize and upgrade your aging technology to a better solution that will optimize performance and productivity. Woodward’s new 505 and 505-XT are direct drop-in replacements (form, fit and function) to your existing 505 systems. You’ve come to trust our technology over the past 140 years for quality, reliability, service and support. Now let us help you extend the life of your turbine and open wide a window of operator control visibility that makes it easier to manage and optimize your system’s performance.
Upgrading your system is made even easier through Woodward’s NEW OptiTune PID technology which analyzes through an “auto-tune” function the steam turbine’s dynamic system response and then calculates the optimum P, I, and D settings. No longer do you have to depend on inadequately trained engineering teams to dynamically adjust your turbine system control loops for optimum operation and performance.

Contact your OEM or one of Woodward’s qualified distributors to help you quickly connect, configure your system, and run our advanced new OptiTune technology. Your system will have expanded control and visibility running at optimum performance.

www.woodward.com/new505

PRODUCT COMPARISONS

<table>
<thead>
<tr>
<th>Features</th>
<th>Mechanical Governor</th>
<th>OLD 505</th>
<th>NEW 505</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operator Control Panel (OCP)</td>
<td>None</td>
<td>2-Line English</td>
<td>8.4” Full graphic multi-language</td>
</tr>
<tr>
<td>Adaptive PID to optimize performance</td>
<td>None</td>
<td>Manual adjustment</td>
<td>OptiTune technology</td>
</tr>
<tr>
<td>Load rejection performance</td>
<td>None</td>
<td>Yes</td>
<td>Advanced Anticipation Logic</td>
</tr>
<tr>
<td>Setup, monitor and control other</td>
<td>None</td>
<td>Separate service tools</td>
<td>Integrated and managed through the 505 control</td>
</tr>
<tr>
<td>Woodward products</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ethernet Communication to DCS</td>
<td>None</td>
<td>No</td>
<td>Yes</td>
</tr>
<tr>
<td>Expandable I/O</td>
<td>None</td>
<td>No</td>
<td>Yes, via LinkNet-HT</td>
</tr>
</tbody>
</table>

GLOBAL SUPPORT

Colorado: turbinehelpdesk@woodward.com  
+1 970-482-5811, option 7  
coloradofieldservice@woodward.com  
+1 970-498-3609

Brazil: vendas@woodward.com  
+55 19 3708-4800

Europe: fieldservice.europe@woodward.com  
+31-23-5661257  
helpdesk.europe@woodward.com  
+31-23-5661239

China: fieldservice.china@woodward.com  
+86 (512) 8818 5515  
helpdesk.china@woodward.com

Japan: fieldservice.japan@woodward.com  
+81-43-2132198  
helpdesk.japan@woodward.com

India: fieldservice.india@woodward.com  
+91 (129) 409 7100  
helpdesk.india@woodward.com  
+91 (124) 439 95330

CONTENT

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DISTRIBUTOR INFORMATION