



ETHERNET COMMUNICATION FOR MACHINE DIAGNOSTICS

In industrial processing and manufacturing, machinery errors and malfunctions can be time-consuming obstacles. The troubleshooting process has seldom been quick and precise. To improve this process and increase productivity, Wilson Diagnostic Systems Company has developed revolutionary high-functionality software that monitors all input and output signals on PLCs, machines and I/O generating points to screen for pattern irregularities in performance.

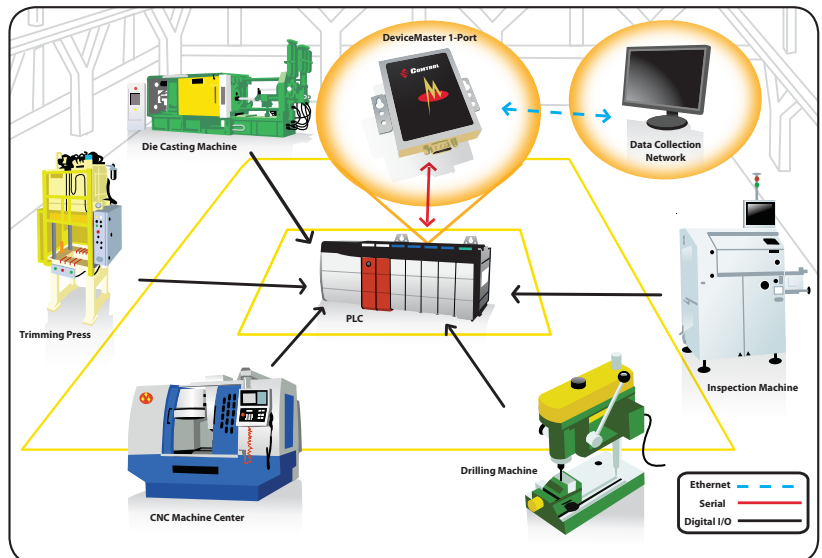
Wilson Diagnostic Systems' PlantTrak™ software is installed into a system network to generate reports based on monitoring all integrated machinery on that network. As soon as an irregularity is detected, PlantTrak analyzes the data to determine whether an error or malfunction has occurred, and can be programmed to generate an alarm. The report data can then be used to identify exactly where the error or malfunction is originating from.

Wilson Diagnostic Systems designed PlantTrak to communicate through Ethernet. However, some machines and PLCs may only have serial, not Ethernet, ports to connect to the presiding network. Comtrol's DeviceMaster products provide the crucial capability to bring serial machines onto the network and into the software.

At a local industrial die casting company, productivity is crucial. The company installed PlantTrak on their network to maintain performance and to expand their PLC-based productivity. The current die casting system consists of multiple stand alone PLC units, which require Ethernet connections to the system network. However, each PLC contains only one serial RS-232 communication port. Comtrol's DeviceMaster RTS 1-Port has been integrated into the system as the connectivity solution.

A serial connection is established between each isolated PLC and a DeviceMaster RTS 1-Port, which then transmits relevant data through the Ethernet connections to the main network.

A comprehensive performance history is recorded for each machine, though the PlantTrak capability to follow the monitoring in real-time is often essential for troubleshooting and process refinement. The exceptionally fast TCP/IP connection capability of the DeviceMaster RTS allows for multiple PLCs to be pinged, or monitored, up to 10 times per second to ensure exact system performance. Comtrol's DeviceMaster has proven to be an exceptional partner with Wilson Diagnostic System's PlantTrak software to optimize system performance and productivity.



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DeviceMaster[®] RTS DB9M 1-Port

Part Number: 99435-0



KEY FEATURES AND BENEFITS

- No serial cable distance limitations enables communication between a host PC and serial devices located anywhere across an Ethernet network
- RS-232/422/485 software selectable
- Supports native COM, TTY, or TCP/IP Socket communication modes
- Web-based configuration makes setup and management changes quick and easy
- Rugged stainless steel housing enables DIN rail or panel mounting
- Temperature rated for extreme conditions (-37° to 74°C)
- PortVision[®] DX remote monitoring and management software
- Software Developer Kit available for users interested in writing custom applications to run on the DeviceMaster platform
- NEMA TS2 Certified
- IPV6 support

PRODUCT DESCRIPTION

The Control DeviceMaster RTS 1-Port DB9 is a single-port device server designed for network-enabling serial communications devices. When used with the included NS-Link[™] driver software and a host PC, the DeviceMaster RTS enables placement of COM or TTY ports anywhere on an Ethernet network or across the internet.

In applications where connecting legacy serial devices to a PC without software changes is a requirement, a pair of DeviceMaster RTS units can be used to create a point-to-point serial tunnel across the network that seamlessly transfers serial data via TCP or UDP socket connections. The product complies with the European RoHS 2 Directive CE.



Warranty Information

Control offers a 30-day satisfaction guarantee and 5-year limited warranty.

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