



## CUSTOMER SUCCESS STORY

# Control's DeviceMaster® RTS provides crucial Ethernet communication for machine monitoring and productivity

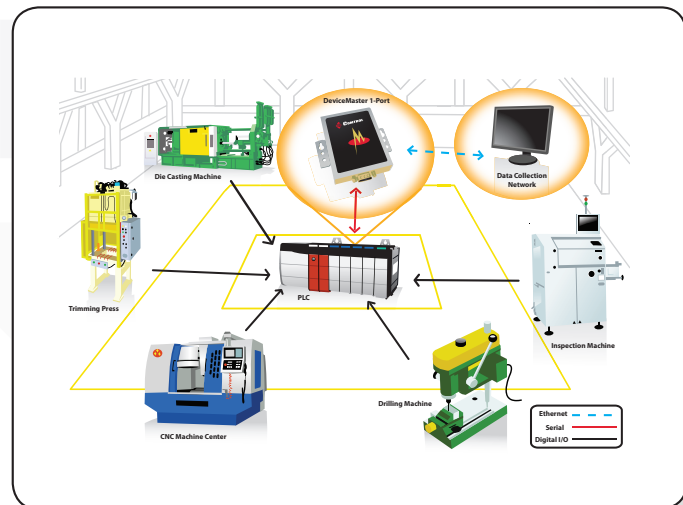
In industrial processing and manufacturing, machinery errors and malfunctions can be time-consuming obstacles. The troubleshooting process has seldom been quick and precise. To improve this process and increase productivity, Wilson Diagnostic Systems Company has developed revolutionary high-functionality 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. Control'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. Control'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. Control'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 1-PORT SPECIFICATIONS

### HARDWARE

<b>Bus Interface Specification</b>	10/100Base-T
Ethernet	
<b>Memory</b>	
RAM	8MB
Flash	4MB
<b>Processor</b>	ARM7 44Mhz
<b>Enclosure</b>	Stainless Steel
<b>LED Indicators</b>	Status, Ethernet Link/Activity, Duplex, 100MB Ethernet
<b>Surge Protection</b>	15KV
<b>Product Weight</b>	.46 lbs
<b>Packaged Shipping Weight</b>	1.96 lbs

### ELECTRICAL SPECIFICATIONS

<b>Device Requirements</b>	200mA @ 5 VDC
<b>Device Consumption</b>	2.1 Watts
<b>External Power Supply</b>	(Included)
<b>Input</b>	90 to 132 VAC @ 60Hz
<b>Output</b>	420mA @ 5 VDC

### ENVIRONMENTAL SPECIFICATIONS

<b>Ambient Operating Temperature</b>	-20 to +60°C
<b>Storage Temperature</b>	-20 to +85°C
<b>Operating Humidity</b>	5% to 95%
<b>Altitude</b>	0 to 10,000 ft
<b>Heat Output</b>	7.16 BTU/Hr
<b>MTBF (Mean Time Between Failures)</b>	48.4 Years

### DEVICE DRIVERS

Microsoft Windows NT®, Microsoft Windows 2000®, Microsoft Windows Server 2003®, Microsoft Windows XP®, Linux

### COMMUNICATIONS

<b>RS232/422/485</b>	
<b>Software-Selectable Interface</b>	
<b>Baud Rates</b>	50 to 230 Kbps
<b>Serial Connector</b>	Data Bits
<b>Parity</b>	Odd, Even, None
<b>Stop Bits</b>	1 or 2

### FEATURES

Lowest Latency  
 NS-Link COM/TTY Port Redirector  
 PortVision Remote Management  
 TCP/IP & UDP Socket Services  
 Telnet  
 HTTP  
 SNMP  
 DHCP / RARP / ARP / BOOTP / Ping  
 Hardware & Software Flow Control  
 Watchdog Reset  
 Event Notification  
 RFC 1006

### REGULATORY STANDARDS

#### Immunity

EN55024; EN61000-4-2, EN61000-4-3, EN61000-4-4, EN61000-4-5, EN61000-4-6, EN61000-4-8, EN61000-4-11, IEC 1000-4-2, IEC 1000-4-3, IEC 1000-4-4, IEC 1000-4-5, IEC 1000-4-6, IEC 1000-4-8, IEC 1000-4-11

#### Emission

EN55022 & A1:2000 IEC 1000-3-2, IEC 1000-3-3, CISPR-22, ICES-003

#### Safety

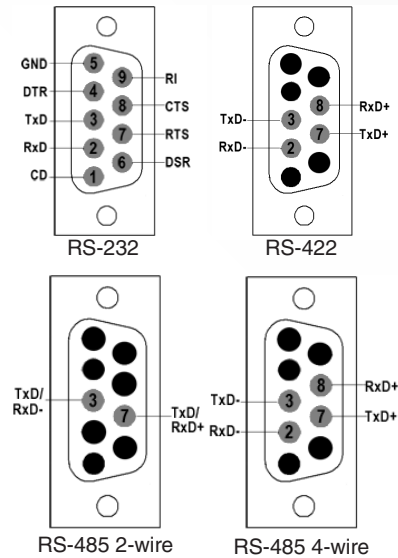
EN60950, IEC 60950, CSA C22.2 No. UL60950

#### Regulatory Approvals

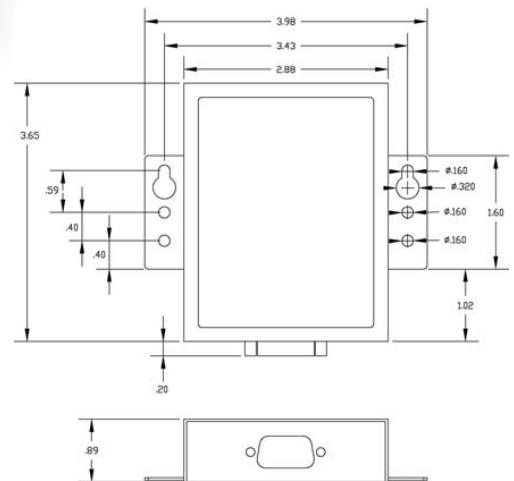
FCC Part 15 Subpart B Class A



### RTS PIN ASSIGNMENTS



Dimensional Diagram for RTS 1-Port (shown in inches)



### ORDERING INFORMATION

99435-0 DeviceMaster RTS 1-Port

### PRODUCT SUPPORT & SERVICE INFORMATION

#### Warranty Information

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

#### Sales Support

+1.763.957.6000  
 sales@comtrol.com

#### Technical Support

+1.763.957.6000  
 www.comtrol.com/support

#### Email, FTP, and Web Support

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 ftp.comtrol.com  
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