Providing world-class leak test and assembly verification solutions to industries around the globe.
EtherNet/IP™ is the standard communication option for CTS Sentinel I28™, C28™, Blackbelt®, and Blackbelt Pro™ instruments that will reduce your integration costs through standardized CIP programming. EtherNet/IP is a high-efficiency unified communication network that will control, configure, and send messages between the CTS leak test instrument and Allen-Bradley ControlLogix® and CompactLogic™ controllers. EtherNet/IP is a licensed CIP™ communications network protocol which CTS is a compliant and certified vendor by ODVA™.

CTS Sentinel instruments use the RJ45 network communication port as the connection to the EtherNet/IP interface and Allen Bradley PLC that allows the user to execute Sentinel instrument I/O functions, machine functions, and communications messaging from the PLC.

**Features and Benefits**

- **EtherNet/IP provides More I/O**
  - Pre-configured and User Programmable I/O
  - No ‘Extra Cost’ selectable function in each instrument
  - EtherNet/IP upgrade is a field installed firmware

- **Easy To Integrate with Cost Savings**
  - Simple one-wire RJ45 interface connection
  - Reduces install time, faster and easier than discreet I/O hard wiring
  - CTS supplied Function Block Program simplifies connectivity and programming

- **I28, C28, Blackbelt, and Blackbelt Pro are ODVA Conformant**
  - Conformance Testing by ODVA ensures flawless operation and verified data exchange; ‘It Works the First Time, and Every Time’

**Summary of EtherNet/IP Communications**

- Control and monitor of I/O functions
- Select which program to be active
- Send / Receive ASCII Barcode information to be stored with test results
  - Blackbelt and I28 instruments only
  - Field size increased to 80 characters
- Test Summary includes data and query of complete data string
- Latch feature for multi-device communications ‘heartbeat’ monitoring

<table>
<thead>
<tr>
<th>Sentinel Instrument I/O</th>
<th>Additional Inputs/Outputs</th>
</tr>
</thead>
<tbody>
<tr>
<td>Std. Hardware</td>
<td>I28</td>
</tr>
<tr>
<td></td>
<td>12/12</td>
</tr>
<tr>
<td>EtherNet/IP</td>
<td>10/9</td>
</tr>
<tr>
<td>- Pre-configured</td>
<td>16/16</td>
</tr>
<tr>
<td>- Programmable</td>
<td>26/25</td>
</tr>
<tr>
<td>- Total I/O</td>
<td>50/53</td>
</tr>
</tbody>
</table>

View of a Sentinel I28 with EtherNet/IP connection.

**Corporate Office**
Cincinnati Test Systems
10100 Progress Way
Harrison, OH 45030
(513) 367-6699
Fax: (513) 367-5426
www.cincinnati-test.com

**China**
Cincinnati Test Systems
Dongfang Road 3601
Harvest Industrial Park No. 7 Building
Room 403
Pudong, Shanghai, China 200125
+86 +21 58366290
Fax: 96-21-58366290

**Korea**
Cincinnati Test Systems Korea Inc.
104-1110, Sk Ventium
522 Dangjeong-d
Gunpo-si, Gyunggi-do, 435-776 Korea
82-707-7501-7743
Fax: 82-31-624-4743

Scan to view our web site

C28, I28, and Blackbelt are registered trademarks of Cincinnati Test Systems Inc.
©2017 Cincinnati Test Systems Inc.

EtherNet/IP is a trademark of ODVA, Inc.
Printed in U.S.A. R2