



EtherNet/IP™ Communication

*Leak Testing
Just Got Easier...*

Typical CTS EtherNet/IP
Network Interface



CTS System PLC



**EtherNet/IP
Network**

EtherNet/IP™
ODVA



Providing world-class leak test and assembly verification solutions to industries around the globe.



EtherNet/IP[™] Communication

Ethernet/IP[™] is the standard communication option for CTS Sentinel I28, C28, and Blackbelt 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 instruments and Allen-Bradley ControlLogix[®] and CompactLogix[™] 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
 - 10 pre-configured inputs / 9 defined outputs
 - 16 programmable inputs and outputs
 - No 'Extra Cost' selectable function
 - Field installed firmware upgrade
- Easy To Integrate with Cost Savings
 - Simple one-wire RJ45 interface connection
 - Reduces install time, faster and easier than discrete I/O hard wiring
 - CTS supplied Function Block Program simplifies connectivity and programming
- I28, C28, and Blackbelt are ODVA Conformant
 - 'Conformance Testing' by ODVA ensures flawless operation and verified data exchange;
 - "It Works the First Time, and Every Time"



View of an I28 with EtherNet /IP connection.

Summary of EtherNet/IP Communications

- I/O Functionality for Machine Control
 - Total of 26 inputs and 25 outputs
- 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
 - Field size increased to 80 characters
- Test Summary includes data and query of complete data string
- Latch Feature for Multi-device Communications 'Heartbeat' Monitoring
- EtherNet/IP Real Time Messaging
 - Test Pass / Fail Results, Machine Test Errors, and System I/O Status to PLC or Remote Terminal



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 Dangeong-d
Gunpo-si, Gyunggi-do, 435-776 Korea
82-707-7501-7743
Fax: 82-31-624-4743



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