

WS Aware®

The Safest Dual Workstation Monitor

DSP-based monitor keeps track of operators, tool and bench grounding and EMI

Assurance of continuous good grounding is the cornerstone for an ESD-safe environment. Utilizing the latest advances in digital signal processing, WS Aware® provides continuous uninterrupted monitoring of all grounding parameters on a workbench or in a tool, in full compliance with ANSI 6.1 and ANSI/ESDA S.20.20 requirements, as well as high-frequency noise (EMI) on ground.

For operators, WS Aware® utilizes dual wrist straps for a continuous

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Applications

- Disk Drive Assembly
- GMR Head Handling
- Semiconductor Fabrication
- Reticle Handling
- Flat Panel Fabrication
- Laser Diodes/Fiberoptics
- Electronic Assembly
- Industrial Robotics
- Medical
- Military
- Wherever ESD is an Issue

Features

- Dual wrist strap monitor
- Big Brother™ operator detection
- Extremely low voltage on person
- Body voltage monitoring
- Metal ground monitoring
- EMI on metal ground
- Dissipative ground monitoring
- Programmable thresholds
- Industrial Network Interface
- Comprehensive information to FMS
- Miniature
- Individually Calibrated

Workstation Monitor

Models CTC061
CTC062

Credence
Technologies

Specification

| Wrist strap Monitor | | Ground Monitor | |
|--|--|---------------------------------------|--|
| Wrist Strap Type | Dual, 3.5mm plug | Parameters Monitored | CTC061 |
| Connection to Ground | 1 MOhms for each side | Metal Ground (Tools) | 2 connections |
| Number of Wrist Straps | 2 | Dissipative Surfaces | 2 connections |
| Imposed Voltage on Body | 0.025V (25mV) max. | CTC062 | |
| Remote Terminals | 2, one for each operator | Metal Ground (Tools) | 4 connections |
| Remote Terminal Cables | Mini-DIN 6-pin | Ground Connector | No-Screw Terminal |
| Visitor Jack on Remote | Available | Connection Activation | Dip-Switch (no jumpers) |
| Body Resistance Alarm Level* | 10MOhms default | Metal Ground Alarm* | 10 Ohms default |
| Body Voltage Alarm Level* | +/-2.5V default | Dissipative Ground Alarm* | 1GOhms default |
| Local Indication | LED, Buzzer | Imposed Voltage | |
| Indicated Parameters | Availability Continuity Body Voltage | Metal Ground | < 0.075V open circuit |
| | | Dissipative Surfaces | < 0.4V open circuit |
| Output Parameters for Each Operator | Availability Continuity Body Voltage | EMI on Metal Ground Sensitivity* | 0dBm default |
| | | Local Indication | Good/Alarm/Off LED, Buzzer |
| | | Indicated Parameters | Resistance to Ground EMI on Metal Ground |
| | | Output Parameters for Each Connection | Availability Resistance to Ground EMI (Metal Ground) |
| * These parameters are programmable in field either locally or via facility monitoring system. Default values are used when no other specification is provided | | | |
| Connectivity | | General | |
| Interface | | Power (local or network) | |
| Current Loop | 4..20mA | Voltage | 12..24V DC |
| Logic Level | 0/20mA | Current Consumption | <150mA |
| MODBUS | MODBUS Std. Compliant | Dimension (approx.) | 3.2" x 2.25" x 1.30" 81mm x 57mm x 33mm |
| Data Connector | RJ45 jack | Weight (approx.) | 4.25 oz (120g) |

Replaceable Jacks Protect Your Investment

WS Aware® terminals utilize special jacks custom made for high reliability allowing for a long period between service.

Should jacks ever become damaged, replacement of them in WS Aware® terminals does not require replacement of the entire terminal. Patent-pending modular construction of WS Aware® terminals allows replacement of only an inexpensive internal board with the jacks using a simple screwdriver instead of buying the entire new terminal. This greatly simplifies maintenance and significantly reduces cost of ownership.

Ordering Information

The following is included when you order WS Aware:

| | |
|--------------------|------|
| WS Aware® CTC061/2 | 1ea. |
| Remote Terminal | 2ea. |
| 10' (3m) Cable | 2ea. |
| User's Guide | 1ea. |
| Grounding hardware | 1ea. |

Don't forget to order proper power adapter unless FMS or data acquisition system provides power to WS Aware®.

CTC-06X-YY-Z

| | |
|--------------|----|
| Regular | - |
| Big Brother™ | BB |

| | |
|-----------------------|----|
| Current Loop 4..20mA | 3 |
| MODBUS | 5 |
| Logic Level (0..20mA) | RT |

| | |
|--|------------------|
| AC/DC Power Adapter (U.S.) | CTA216 |
| AC/DC Power Adapter (Universal) | CTA217 |
| Ground Cord for Dissipative Surfaces (1 ea.) | AWD006 |
| Ground Cord for Metal Surfaces (2 ea.) | ATD018 |
| Replacement Terminal Board w/Jacks | CTA245 |
| Remote Terminal Cable (10' -- 3m) | NCA001 |
| Professional dual wriststrap w/10' (3m) cord | CTA472-10 |

Accessories



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