Computer Weld Technology, Inc.

# WDL II™
## WELD DATA LOGGER

### WDL II™

The Weld Data Logger represents leading edge technology in arc welding data collection and logging. The micro controller based weld data acquisition system provides a means of measuring and documenting all basic welding parameters when used with external IBM compatible printer or PC. The WDL II™ also has a high speed data collection mode which permits it to be used in such applications as stud welding. Additionally the WDL II™ has the unique ability to calculate heat input using the optional travel speed transducer or the actual weld length and accumulated arc time.


The WDL II™ is the lightweight portable tool that will enable you to establish and maintain qualified welding procedures.

### FEATURES

- Log with date / time stamp, all welding data
- Two-line 16 character alpha-numeric display
- Compact portable design
- 1mb on board data storage
- Ability to dump to external printer for hard copy
- Centronics compatible parallel printer port
- RS-232-C serial communication port
- Software selectable print format for 80 or 40 column printers
- Available in English or Metric units

### BENEFITS

- Chance of error in recording data eliminated
- Easily transportable between plants or shop locations (ideal for inspectors)
- Instantaneous viewing of current welding conditions (ideal for inspectors)
- Permits extended data logging without need for printer at location (ideal for inspectors)
- Ability to collect and display run time welding data using IBM or compatible PC and optional WeldLog Plus™ software
- Ability to generate hard copy at job site or back at office location (ideal for inspectors)

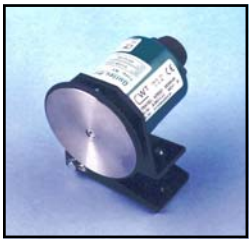
10702 Old Bammel N Houston Rd • Houston, Texas 77086 • Phone 713-462-2118 • Fax 713-462-2503
Visit our website at http://www.cweldtech.com or Email us at cwt@cweldtech.com

# WDL II™ SPECIFICATIONS

## WDL II™ Sensors

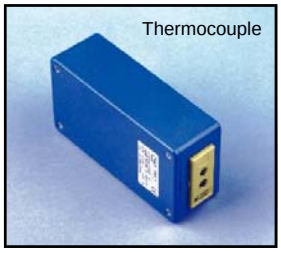
**Arc Voltage**
0-80 volts DC ± 1%*,
0.1 volt resolution

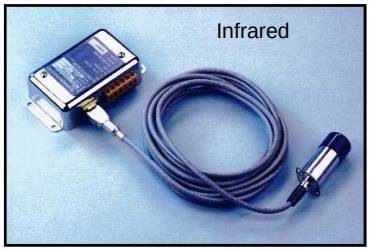
**Arc Current**
0-1000 amps DC ± 1%*,
1 amp resolution



**Travel Speed**
1-100 IPM (0.4-42mm/s)
±3%*, 0.1 IPM (0.04mm/s)
resolution

**Wire Speed**
10-1000 IPM (4.2-423mm/s)
±3%*, 1 IPM (0.4mm/s)
resolution




**Temperature**
Range resolution and accuracy depend on sensor used.
Consult factory for options.

**Gas Flow**
5-255 scfh (2-120 LPM),
±2% of full scale ±1 digit,
1 scfh (1 LPM) resolution,
50 psia (344 kpa)
Maximum operating pressure


* % Accuracy is of full scale

## Mode of Operation

**Data Logging** - Welding parameter data can be dumped to an external printer for hard copy printout and fault analysis or to a compatible personal computer using WeldLog Plus™ software for data storage and analysis.

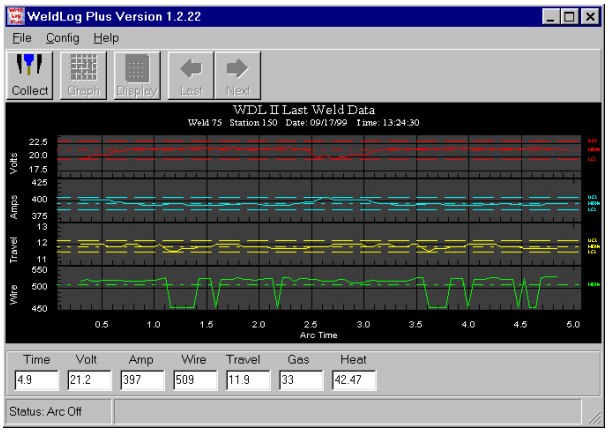
WeldLog Plus™ Software - The PC software provides the following capabilities:

- Mean and standard deviation for each parameter
- Graphic analysis for single and multiple weld data files

## Parameters Monitored / Logged

- Current
- Heat Input*
- Temperature
- Wire Feed Speed
- Voltage
- Travel Speed
- Elapsed Time
- Shielding Gas Flow

* Heat input is calculated based on optional travel speed sensor or default travel speed specified by user.




WeldLog™ Plus Software

## Specifications

| | |
|---|---|
| **Dimensions:** | 2.0” H x 8.5” W x 11” L<br>(51mm x 165mm x 280mm) |
| **Weight:** | 5 lbs. (2.3 kg) |
| **Power:** | 115 vac or 220 vac<br>50 / 60 Hz @ 1 amp |
| **Communications:** | RS-232-C serial port<br>Centronics parallel printer port |

Note: Specifications subject to change without notice.

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