



## DataLogger



### DataLogger Packages

Package includes: DataLogger, Pocket PC w/ DataLogger software pre-installed, Pocket PC wrist strap, carrying case, SD card reader, operator's manual, one year free software support.

Description	Part No.
100-240V, 50/60Hz	DL6301

**The McElroy DataLogger®** is used to record and document the key parameters of the fusion process. This cost effective device can be used to verify that proper procedures have been followed prior to installation. The DataLogger consists of a Pocket PC as the recording device wirelessly connected to a data collection device. The data collection device records the heater temperature along with the fusion pressure profile over time. All data is recorded and transmitted to the Pocket PC where the report can be stored, viewed, printed out directly or transferred to a desktop computer for archiving.

#### Key features of the Pocket PC:

- Wireless connection to the data collection device via Bluetooth®
- Pocket PC provides familiar Microsoft Windows user interface
- Storage via easily replaceable or upgradeable SD card
- Transfer to a PC through SD card reader, Bluetooth, or USB
- Generates reports in imperial or metric units

#### Key Features of the Data Collection Device:

- Laser-guided pyrometer for accurate temperature readings
- New quick disconnect allows connection under pressure

The DataLogger comes equipped with the fittings necessary to connect to the hydraulic system of all McElroy fusion machines made after 1997. If you have an older machine, you may need one of the kits below.

## DataLogger Adapter Kit

Adapter kits are used with machines made beginning 1994 through 1997. These machines have a port labeled TX on the manifold. This series of fusion machines are plumbed with high pressure hydraulic hoses.

Description	Part No.
No.28—No.2065 *	ADL6601
No.28 Combination Unit	ADL6602
Sidewinder™	ADL6603

\* Included with DataLogger Package.

## DataLogger Retrofit Kit

Retrofit Kits are for 1994 and older configuration machines without a port labeled TX. This series of fusion machines were plumbed with hydraulic lines made of stainless steel tubing.

Description	Part No.
No.28, No.412, No.618	ADL6604
No.28 Combination Unit	ADL6605
No.824 Machine – Hose	ADL6606
No.824 Machine – Tubing	ADL6607
No.1236 Machine – Hose	ADL6608
No.1236 Machine – Tubing	ADL6609
No.1648 Machine	ADL6610
No.2065 Machine	ADL6611

## DataLogger Spares

Description	Part No.
Computer Battery Pack – (1 req.)	MKG00028
Computer AC Adpt. 120/240V	MQE00074
Coiled Cable	MLE00070

## DataLogger Accessories

Description	Part No.
Printer	MQE00077
Printer Battery Pack – (1 req.)	MKG00029
Printer AC Adpt. 120/240V	MQE00075
Printer Paper	MQE00076

## DataLogger Recorded Data

The DataLogger can record a multitude of information on a given fusion joint being produced. Up to 4 different Interfacial and gauge pressures can also be recorded. A sample print is shown below.

### Sample Screen

```

1. Date & Time : 2005/02/11 14:50:21
2. Joint No.   : 12
3. Job No.    : Demo 1
4. Employee ID: DL Teacher
5. Machine ID : McElroy 1
6. Mach. Model: #618 MF
7. Piston Area : 6.010 in2
8. Pipe Material: ISO (Single HF) IP
9. Pipe Size   : 8" IPS DR 11
    
```

#### Interfacial Pressures (psi):

```

12. Heat : 75
13. Soak  : 0
14. Fuse  : 75
15. Cool  : ---
    
```

#### Recommended Gauge Pressures (psi):

```

18. Heat : 371
19. Soak  : 130
20. Fuse  : 371
21. Cool  : ----
    
```

#### Recorded Data:

```

23. Drag Pressure: 130psi
24. DataLogger Probe: 440°F
25. External Probe: ---
26. MDL3-0002 v0.0.2 Console v0.0.1
27. Notes:
    
```

Demonstration of field operation

