



DataLogger® Package

Part No.	Description
DL6303	DataLogger, Rugged Pocket PC with software pre-installed, carrying case and one year free software support.

DataLogger®

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

Handheld Computer

- Meets MIL-STD-810F standards for drops, vibration and temperature extremes
- IP67 rating: impervious to dust and water immersion
- Wireless connection to the collection device via Bluetooth®
- Provides familiar Microsoft® Windows® user interface
- Program and joint reports store in nonvolatile memory
- Transfers joint reports to PC via standard USB port and Microsoft® ActiveSync®
- Generates reports in imperial or metric units

Data Collection Device

- Laser-guided pyrometer for surface temperature of heater
- New quick disconnect allows connection under pressure
- Joint report recorded in nonvolatile Flash memory
- Battery operated for portability

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.

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 : ---

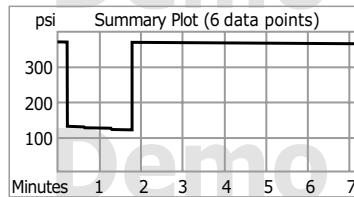
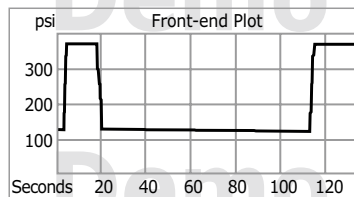
Recommended Gauge Pressures (psi):

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



Part No.

Description

Printer



MQE00077

Connects via Bluetooth® to the DataLogger® to print fusion records.

Spare Printer Battery Pack



MKG00029

1 rechargeable printer battery.

Spare Printer AC Adapter



MQE00075

AC Adapter to charge and/or power handheld printer.

Spare Printer Paper



MQE00076

1 roll of paper for handheld printer.

Spare Coiled Cable



MLE00070

Replacement hydraulic transducer cable

DataLogger Adapter Kit

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

ADL6601

No.28 to No.1648 (Included with DataLogger)

ADL6602

No.28 Combination Unit

ADL6603

Sidewinder™

ADL6612

No.2065

Part No.

Description

DataLogger Retrofit Kit

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

ADL6604

No.28, No.412, No.618

ADL6605

No.28 CU

ADL6606

No.824 Machine – Hose

ADL6607

No.824 Machine – Tubing

ADL6608

No.1236 Machine – Hose

ADL6609

No.1236 Machine – Tubing

ADL6610

No.1648 Machine

ADL6611

No.2065 Machine

DataLogger Connection Guide



1

Older machines without a port labeled TXA require a DataLogger Retrofit Kit shown in the table above.



2

If you have an older McElroy machine the TXA port may be plugged as in illustration 1 or it may have an older style QD as in illustration 2. In either case you will need to install a new QD, similar to the one shown in illustration 3 to work with the new DataLogger. A kit to do this is included with the DataLogger but some machines require an additional kit which can be found in the **DataLogger Adapter Kits** in the table to the left.



3

If the QD in the TXA port looks like the one in illustration 3 no further upgrades are necessary to use the new DataLogger.