



**Computer Weld
Technology, Inc.**

ADM IV™

ARC DATA MONITOR

ADM IV™

The new generation, user friendly ADM IV™ “Arc Data Monitor” can be easily configured to fulfill the requirements of any end user’s needs. This device can be employed as a stand-alone unit using the “Remote Control Pendant” to configure the system and view the results or it can be linked to a PC to accomplish the same task. The modular design and compact size of the new ADM IV™, and the fact that it is software configurable, permits each user to design and implement their own unique system to achieve the desired end results. Internal memory permits information to be saved at the job site and downloaded to a printer or personal computer at a more convenient time and location. The new version of “Windows® 95/98/NT” compatible ADMSTAT Plus™ software provides a mechanism that permits additional data storage and further analysis of collected data. The ADM IV™ is a rugged, versatile and cost effective tool that can be configured in single and multiple arc configurations.



The ADM IV™, a versatile next generation quality control device, capable of assuring that all of your arc welding parameters meet or exceed “ISO-9000”, “QS-9000” requirements and your Statistical Process Control (SPC) standards.

FEATURES

- Personal computer interface
- Networking capability
- 64 user definable weld schedules
- Plug-in sensors and remote pendant
- Logging of all weld process data including pulse parameters
- Compact, versatile, rugged and lightweight design
- Two spare analog inputs with limit testing capability
- User definable fault diagnostic screen located on operator pendant display

BENEFITS

- Facilitates off-line programming and data collection
- Network multiple ADMs to a single computer
- Simplified installation and upgrade capability
- Provides documentation and data trend analysis relating to the welding process on a non-invasive basis
- Easily installed in new or existing applications
- Provides versatility and flexibility for additional parameter inputs
- Permits user / operator to custom configure help screens for trouble shooting assistance

ADM IV™ SPECIFICATIONS

ADM IV™ Sensors



Arc Voltage
0-100 volts DC $\pm 1\%^*$,
0.1 volt resolution



Arc Current
0-1000 amps DC $\pm 1\%^*$,
1 amp resolution



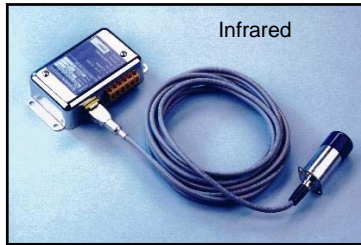
Travel Speed
1-100 IPM (0.4-42mm/s)
 $\pm 3\%^*$, 0.1 IPM (0.04mm/s)
resolution



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



Thermocouple



Infrared

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

Gas Flow
5-255 scfh (2-120 LPM),
 $\pm 2\%$ 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 Monitoring - The ADM IV™ tests actual weld parameter data and compares it to upper and lower control limits for each parameter. When a fault condition is encountered, the system sets an internal alarm relay which can be used to shut down the welding system or activate an external alarm.

Data Logging - This mode is for data collection only. Welding parameter data can be downloaded to an external printer for hard copy printout and fault analysis or to a compatible personal computer using ADMSTAT Plus™ software for data storage and analysis.

Parameters Monitored / Logged

- Current
- Heat Input*
- Temperature
- Wire Feed Speed
- Two Spare Analog Inputs
- 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.

Specifications

Dimensions:	3.0" H x 8.5" W x 11" L (76mm x 165mm x 280mm)
Weight:	9.5 lbs (4.3kg)
Power:	115 vac or 220 vac 50 / 60 Hz @ 1 amp
Communications:	RS-232-C serial port RS-485 network port RS-485 pendant port Centronics parallel printer port
Interface:	8 inputs (24 vdc) and 8 user definable relay outputs



Note: Specifications subject to change without notice.