

AMV 3000



Instrument

AMV 3000 is a microprocessor based instrument which has been designed to meet the quality standards for arc welding.

The AMV 3000 is a robust unit with air-borne and line HF protection and is capable of monitoring both DC and AC welding parameters. The other main features of the AMV are:

- Light weight and compact design
- Keypad data entry
- LCD display

Welding parameters

The unit is capable of monitoring voltage, current and wire feed speed, although the wire feed tacho must be purchased separately.

Arc Current

Monitored using a Hall Effect probe. It is possible to monitor both DC and AC current waveforms. The average value is calculated from the mean (rectified) value.



Arc voltage

The arc voltage should be measured as close as possible to the arc. If this is not done the voltage drop across the welding leads will be recorded as well as across the arc. However, it is standard practice to measure the arc voltage at the wire feed unit for MIG welding.

Wire feed

The wire feed speed is recorded as the average value. A tachometer is mounted directly on the wire.

Calculated values

The following values are automatically calculated and presented in the weld summary:

- Average welding parameters (current, voltage, wire feed speed etc.)
- Arc Energy per unit length (arc energy divided by weld length) – presented as 'Heat Input'.

Specification

Parameter		Range	Accuracy
Voltage		0-100V	±1% (DC)
Current	DC	0-1000A	±1%
	AC	0-600A	±2%
Wire feed		0-20 m/min	±2.5%

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