

Easy process selection

The AMV 4000F can be a complicated monitoring system with complete control given to the operator.

SET DATA SAVE OPTION			SET SAMPLE RATE			
STANDARD	TRANSIENT (BLOCK)	TRANSIENT (FULL)	100 KHz	50 KHz	40 KHz	20 KHz
SET BLOCK SIZE			10 KHz	5 KHz	2 KHz	1 KHz
	256 SAMPLES	512 SAMPLES	500 Hz	200 Hz	100 Hz	50 Hz
	1024 SAMPLES	2048 SAMPLES	20 Hz	10 Hz	5 Hz	1 Hz
	4096 SAMPLES					
SET BLOCK INTERVAL			SET TRIGGER CHANNEL			
0 s	0.25 s	0.5 s	No Trigger	Volts & Amps		
1.0 s	2.0 s	5.0 s	Volts	Chan 4		
10 s	15 s	20 s	Chan 5	Chan 6	Chan 7	Chan 8
30 s	40 s	1 min	TRIGGER VOLTS (V) >			
2 min	5 min	10 min	- 5 +			
< BACK TO CONFIGURATION MENU			TRIGGER AMPS (A) >			
			- 20 +			
			TRIGGER DELAY (s)			
			- 0 +			

Including:

- Triggering
- Monitoring rate
- Sample size

However, the AMV 4000F also comes with a set of monitoring conditions for the main arc welding processes. This makes accurate monitoring possible for all operators.

PROCEDURE INFORMATION	
PROCEDURE NAME:	Procedure1
OPERATOR NAME:	Operator1
REFERENCE NO.:	NEW DATA 3
DESCRIPTION:	NEW DATA 4
WELDING PROCESS:	
MIG (IMP TRANSFER)	TIG (PULSED)
MIG (GLOBULAR)	TIG (AC)
MIG (SPRAY)	TIG (PLASMA)
MIG (PULSED)	MANUAL METAL ARC
MIG (AC)	SUBMERGED ARC
TIG (DC)	
NEW PROCEDURE	
OPTIONS	
RESTORE DEFAULTS	SAVE SET UP
SAVE SET UP	ADVANCED...
DONE...	

SELECT CHANNELS TO MONITOR:	
<input checked="" type="checkbox"/> VOLTS	<input type="checkbox"/> CHAN 6
<input checked="" type="checkbox"/> AMPS	<input type="checkbox"/> CHAN 5
<input type="checkbox"/> WFS	<input type="checkbox"/> CHAN 7
<input type="checkbox"/> CHAN 4	<input type="checkbox"/> CHAN 8

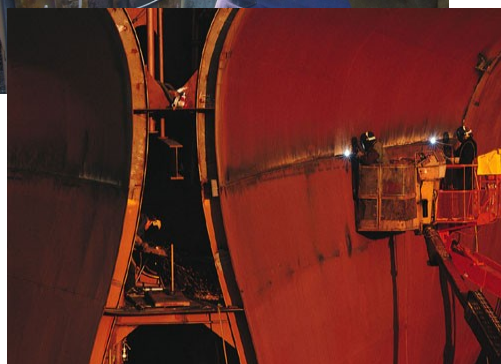
SET ALARM LEVELS

CONFIGURE CHANNELS

SET LANGUAGE:

ENGLISH

<< >>



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Triton Electronics Ltd

Manufacturers of monitoring equipment

▶ **AMV 4000F**

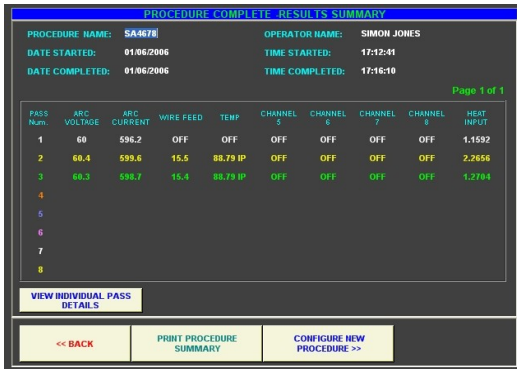


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AMV 4000F

Procedure monitoring



The AMV 4000F has been developed for production weld monitoring and can store data from 255 passes including:

- Process
- Average pass values
- Heat input

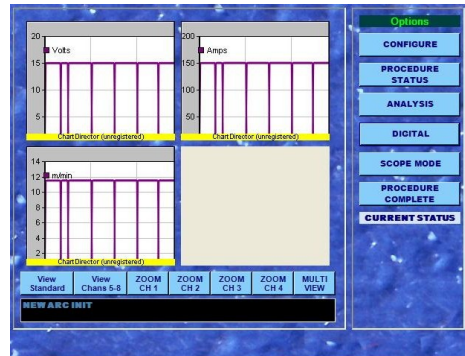
This data is available as a text file that can be easily imported into a database.

Temperature can be stored as either an average of the dynamic value throughout the pass or as the starting, interpass temperature.

Previous pass data can also be used to create alarm levels that will automatically generate out of tolerance warnings



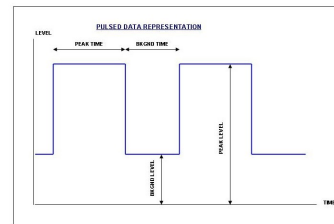
Welding Waveform Analysis



The AMV 4000F can record the welding waveform. Hence it is possible to see the effects of changing parameters on the process. This can be invaluable for procedure development where understanding the mode of metal transfer can help improve productivity and reduce defects.

Built in algorithms determine pulse parameters.

Process stability determination is possible through add-on analysis programs.



Adaptability

The AMV 4000F can record up to 8 channels of data simultaneously the standard configuration is:

Channel	Parameter
1	Voltage
2	Current
3	Wire Feed Speed
4	Temperature
5	Gas Flow
6	-
7	-
8	-

However, all the channels can be realigned through software. It is a simple matter to add parameters to channels 6,7 and 8.

Channel 8 is typically used for a secondary current channel.

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