



SmartWeld Control

For monitoring Thermit preheating and welding parameters

Features:

- Gas pressures measured to ± 0.01 bar accuracy
- Gas and ambient temperature recorded to ± 0.5 deg temperature
- Minimum data storage – 500 weld records
- Weight of unit including plug in ancillary equipment comprising USB data cable, mains charger and vehicle charger = 7.8kg
- Dimensions of box 350mm x 300mm x 150mm
- Explosion safe.

Benefits:

- Reliable and accurate measurement and recording of the preheating process
- Provides secure records of each weld – including preheating data, GPS location and welder identification
- Digital pressure gauges with solid state measuring transducers and no mechanical components
- Easy to calibrate and update with details for preheating parameters of new welding processes, rail sections and grades
- Robust, compact and portable with long battery life
- Data can be downloaded to a PC to produce individual weld reports.

SmartWeld Control

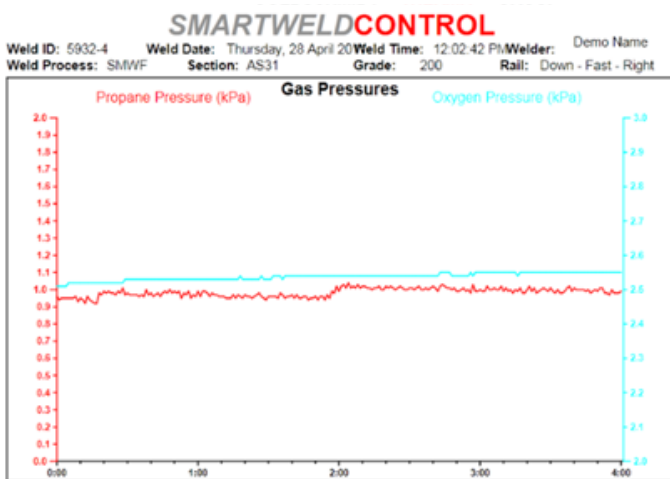
It is generally acknowledged that the weakness of most Aluminothermic welding processes is the application and control of the oxy/gas preheating procedure. All processes rely on the skill on the welder in aligning the preheating appliance, manually adjusting the gas pressures to produce the correct preheating conditions and timing the duration of the preheat.

Welds rejected on inspection, due to faults linked to incorrect preheating, are believed to cost the industry in excess of \$1m per year. This is why the Thermit Group has developed software to monitor weld data, and log all information from the start to the finish of a weld. The SmartWeld Control will also assist the welder with technical information acting as a weld data sheet and time keeper for the duration of the process.

The SmartWeld Control is a robust solid state device designed to be fitted to the gas supply hoses. It provides the welder with the required welding procedure, displays and monitors preheating parameters and records key welding conditions for the quality assurance records.

The SmartWeld Control is user friendly and allows the welder to select the appropriate procedure from a simple menu. During the preheat process if any pressure falls below or exceeds that of the tolerance the SmartWeld Control will emit a visual and audible alarm.

For your demonstration email us on info@thermit.com.au or call on 02 4340 4988



Operator:	Demo Mode	Company:	Thermit Welding
Stamp:	TW123	Sentinal Card No:	0123456789 Expires: 29-10-2011
Skills Expire On:	TW1 29-03-11 TW2 29-04-11 TW3 29-05-11 TW4 29-06-11		
	TW5 29-07-11 RT1 29-08-11 RT2 29-09-11 RT3 29-10-11 RT4 29-11-11		
Weld Date:	29-04-11	Rail Identification:	Fast Up Left Ambient: 21.0
Weld Time:	15:43:01	Longitude:	000° 28.9409' W Latitude: 50° 49.6783' N
Weld ID:	1234-1	Process:	SKV-F Section: UIC56 Grade: 220
Portion A Type:	101020	Art No:	255100 Batch No: 0013631 Portion: 0534
Portion B Type:	101021	Art No:	255101 Batch No: 0013632 Portion: 0535
Measured Preheat Time:	180.0	Measured Tapping Time:	20.0

