# DATAPAK 700 Resistance Welding Process Monitor





# Versatile resistance welding monitor and data logger/recorder

# Advanced monitoring for the welding professional

The Datapak 700 can be used as a general-purpose weld meter or as a machine process monitor. By measuring current, time and force and having the capability to interface with individual welding stations, it can supplement and enhance legacy installations or replace existing meters. One of the important advantages of the Datapak is that it provides independent weld monitoring which is not affected by possible malfunctions within welding controls which may otherwise result in welding errors. Up to 64 selectable monitoring programs and a teach facility allow easy set-up. Flexible inputs and outputs allow connection to a wide range of welding control systems. Data from up to 24,500 welds can be stored in memory and all measurements are time and date stamped. Data can be exported via the RS-232 port.

# Datapak 700 is suitable for the following Applications:-











#### Spot

All types of spot welding, including single, repeat, pulsation, single electrode, multi-electrode, and series welding. **Projection** 

All types of projection welding including multi-projection, annular-ring (spud), single projection and weld nut, including multi-electrode management and dressing.

#### Seam

A special seam welding derivative (DATAPAK 700S) is available specifically for continuous seam welding applications **Roll-Spot** 

Most types of roll – spot welding.

#### Pulsation

Pulsation welding for thick materials.

## Micro Welding

## Alternate half cycle.

## Multi-weld and Cross Wire

Simple multi-welding, low cost and small size allows one control per transformer. **Robot Welding** 

Suitable for most robot welding applications where Fieldbus or Communications Networks are not required.

## Headline Features:

Vacuum-Fluorescent Display	:	High visibility	
Illuminated push button	:	Easy to use	
Compact Rugged Enclosure	:	Machine mountable or semi-portable	
Lockable operation	:	Secure set up conditions.	
Multi-point calibration	:	Accurate	
Weld or component count	:	Process quality control	
AC/DC/CD, primary or secondary	:	Versatile monitor methods	
64 programs	:	Separate settings for all your components.	
Time and date stamped data logging	:	Traceable records.	
Serial Port	:	RS232 as standard.	

Standard Features	General Information	
	Blanking On / Off	
y: 4 x 20 character VFD	Primary or Secondary current feedback	
tors:	Pressure/(2 points, kN / V)	
Fault Warn	Program select - internal default - external binary	
Pass Count	- external binary	
a sensitive membrane keypad: 8 keys and 3 indicators	Global Parameters	
switch: Position 1 - Bypass Position 2 - Normal Position 3 - Reset/Edit alve connections: 380 –480V 50/60 Hz	Configuration: Mode (AC, DC or CD) Frequency 50/60 Hz AC blanking On/Off DC threshold 099% Sensor (Toroid/CT) Toroid test (On/Off Toroid scale factor (14)	
100-120V 50/60 Hz or 24v DC	Force units (kN/lbf)	
on/off optional—24VDC	Calibration: Toroid (100-2000mV/kA	
id sensitivity: 100 to 2,000 mV/kA	CT S/P ratio (1:1199:1) CT S/P offset (-1kA+1kA)	
atio: 800:1	Force (2 points, kN/V Analogue output (10V=060kA	
sure transducer: 010 V dc	Printer:	
munications Port: RS232	Lines per page Format (Table/CSV)	
time clock: h:m:s dd:mm:yyyy	'Print on' condition: All	
Memory: 24,570 welds	Pass Only Fail Only	
Consisting of: Current	Off Clock:	
Time Force	Date Time	
Program Counter	line	
Status Time	Inputs	
Date	Weld On/Off	
Monitor Programs	Toroid 100-2000mV/kA	
x 64	CT 800:1	
or/Teach	Force Input 010V	
ent 060kA	Program 1 select	
adapter 0200kA 010 volts	Program 2 select	
010 volts	Program 4 select	
099 cycles or 0999 ms	Program 8 select	
monitor On/Off	Program 16 select	
monitor On/Off	Program 32 select	
nonitor On/Off	Air Valve Trigger Input:	
nt low limit 099%	A. 380-480 volts @ 50/60 Hz	
nt pre-limit 099%	B. 100 - 120 V @ 50/60 Hz	
t high limit 099%	C. 24 V DC	
it count 099%	Current Trigger via CT or Toroid	
re / high limit 099%		
veld count (09999)	Outputs	
nal count (09999)	Machine interlock voltage free contact	
	Analogue output of current	
e/Stop at end	Printer (RS232)	
king (On/Off)		

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