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typical applications

manual stations



pedal spot machines



projection welders



Datapak 700 ac/dc/cd weld monitor & data logger

data sheet



New features

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 legacy installations or replace existing meters. Up to 64 selectable monitoring programs and a teach facility allow easy set-up. Flexible inputs and outputs allow connection to wide a range of welding controls. Data from up to 24500 welds can be stored in memory and all measurements are time-stamped. Data can be exported via the RS-232 port.

features	benefits
vacuum-fluorescent display and illuminated buttons	easy to use
compact, rugged enclosure	portable or machine-mountable
lockable operation	security
multi-point calibration	accurate
count up to 9999 welds or components	suitable for a wide range of applications
ac/dc/cd, primary or secondary 1/2-cycle current measurement	versatile
64 monitoring programs	settings for all your applications
analogue output of current level	interface to other equipment
RS232 communications and printing	archive settings and results
time-stamped data logging memory	unattended operation to collect data

options
toroid attenuator
toroids
CT

configurations
240 or 400 V supply

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specification		environmental	
display	4 x 20 character VFD	temperature	
indicators	fault/warn/pass/count	- operating	0° to +40°C
keyswitch	bypass/normal/edit	- storage	-25° to +70°C
air valve connection	400/110 V ac or 24 V dc	humidity	
weld on/off (optional)	24 V dc	- operating	up to 80% (relative)
toroid sensitivity	100..2000 mV/kA	- storage	10% to 90%
CT ratio	800:1		
pressure transducer input range	0..10 V dc	dimensions	
communications port	RS-232	height	275 mm
real-time clock	h:m:s dd:mm:yyyy	width	254 mm
data memory	24570 welds, current/time/force/program/ counter/status/time & date	depth	174 mm
		weight	4.9 kg
configuration		power requirements	
mode	ac/dc/cd	voltage	240 or 400 V ac
blanking	on/off	frequency	50/60 Hz
dc threshold	0..99 %	part numbers	
sensor	toroid/CT	Datapak 700 240 V	03-00-01
toroid test	on/off	Datapak 700 400 V	03-00-02
scale factor	1..4		
force units	kN/lbf		
monitor programs x 64		monitoring options	
mode	monitor/teach	description	part number
current	0..200 kA (> 60 kA via adapter)	3" flexible toroid	296545
force	0..10 V	6" flexible toroid	296546
time	0..99 cycles or 0..999 ms	12" flexible toroid	296547
current monitor	on/off	5 m extension lead (calibrated toroid)	90-90-02-09
force monitor	on/off	5 m extension lead (uncalibrated toroid)	90-90-02-10
time monitor	on/off	toroid attenuator	90-90-62-01
current low/pre/high limits	0..99 %	CT (max 4kA)	99-90-67
pre-limit count	0..99		
force low/high limits	0..99 %		

Information in the document is subject to change without notice.

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