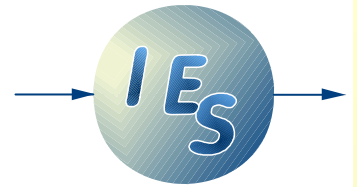


IES 3401A Squib Timer



SHORTFORM DATA

Controller for delayed ignition of airbag squibs with 4 independent timed outputs.

- ☺ 19" rack mount version
- ☺ Time delay 0.1 ... 999 ms in steps of 0.1 ms
- ☺ Built in data acquisition for ignition voltage
- ☺ Squib resistance measurement and display
- ☺ Comprehensive self test including energy storage capacitor
- ☺ Status and control inputs/outputs, 3 different trigger sources
- ☺ Stand alone usage possible (built in menus)
- ☺ Text display shows status, time delay, squib resistance
- ☺ Set up is stored in non volatile memory
- ☺ Remote control over RS-232 and Ethernet



Specifications

Mechanical	
Dimensions W x H x L	21 TE x 3 HE (106 x 128 x 170 mm ³)
Mass	0,5 kg

Environment	
Temperature range	0...50 °C
Humidity	Non condensing

Connectors	
DIN 41612 Type F	supply, trigger, safety input, remote control status signals, RS-232, 4 independent squib outputs
RJ-45	Ethernet communication

Electrical	
Supply	9 ... 40 V; typical 5 W, peak 20 W
Charge-Supply (only with option -BAT)	9 ... 16 V; max. 15 W
Uptime with full accumulator (only with option -BAT)	6 hours
Ignition energy	max. 170 mJ in 2 ms
Output current	option CUR: 0.5 A ... 6 A, 5 % accuracy *) *) on demand 2 % accuracy without option CUR: minimum 6 A
Sampling rate for voltage measurement	10 kHz
Measuring range for squib resistance	0 ... 9,5 Ohms
Time delay range	0.1 ... 999 ms in steps of 0.1 ms
Trigger inputs	a) voltage protected GND-contact b) RS-485 trigger bus (in/out) c) opto isolated voltage input 5 ... 24 V
Safety enable input	opto isolated voltage input 5 ... 24 V
Arm enable input	opto isolated voltage input 5 ... 24 V
Ready outputs	a) opto isolated open-collector output b) voltage protected und current limited 5V output (CMOS-compatible)
Status outputs für t0, t1, t2, t3, t4	Voltage protected und current limited 5V output (CMOS-compatible)
Remote control interfaces	RS-232, Ethernet

Ordering information: IES 3401A

Also available:

IES 3400A	Miniature crash proof version
Option -BAT	Internal Li-Ion accumulator
Option -CUR	Current regulated outputs
IES 3400SW	PC remote control software

Information is provided without warranty and is subject to change without notice. We reserve the right to make changes whenever necessary to improve to the product.
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