ELECTRONICS
SYSTEMS AND DEVICES
Process Control Instrumentation

INTRODUCTION

Event Data logger systems are used to give visual indication of fault conditions. Event logger play an important role of watching the fault conditions and indicating them to help in speedy location and correction.

ESD's event logger system is suitable for 8/16inputs and is available in different DIN standard cutouts or 19" racks. The series is designed using powerful microcontroller and highly reliable electronic components.
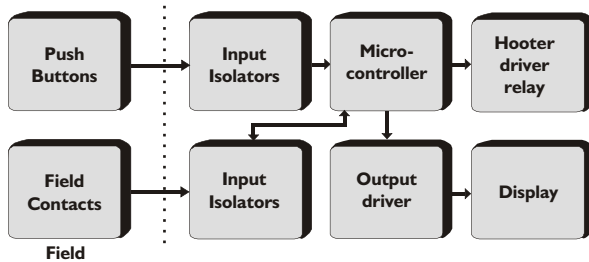
The Event Data Logger are connected to potential free field contacts (as inputs). When a fault condition occurs in any one of the connected inputs, annunciator indicates the fault by flashing the respective window (visual indication).

The Event Logger accepts potential free contacts as its inputs, with a selection facility for 'NO' (make to alarm) and ' NC' (break to alarm).

User can connect a hooter through relay for audio alarm. Facility to connect external 'Test & Accept' push buttons is available. Multiple flashing rates are provided for differentiating various fault types.

PRINCIPLE OF OPERATION

The single chip microcontroller of the Data Logger series continuously monitors all the connected inputs. If a fault occurs in any of the inputs, then it is detected by the CPU. According to the nature of the fault, the CPU will decide the status of the
window and hooter. Faults are classified as :
1. Persisting fault but not accepted
2. Persisting fault, but accepted.
3. Momentary fault disappeared before

APPLICATION

The ESD Data Logger series data acquisition system can be used in almost any industry, laboratory etc. where accurate temperature monitoring and process verification is needed to be carried out.
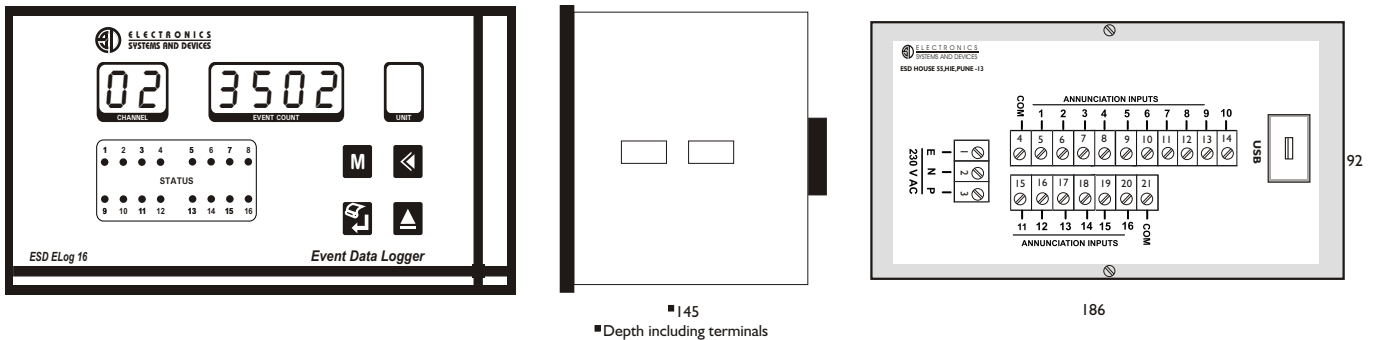
FEATURES

- ✓ Proven trouble free field performance
- ✓ Highly compact
- ✓ User friendly programming
  USB interface for data storage
- ✓ Dust and vermin proof enclosure with epoxy
- ✓ powder coating
- ✓ LED display gives better readability at long range
  Fast response time
- ✓ Maximum MTBF and minimum MTTR
- ✓ Feather touch push button

SPECIFICATIONS

Model	: ESD Elog 16	Battery backup	: Built in for program / data memory
No. of channels	: 16	Fault condition	: Individually selectable 'Make to alarm' or 'Break to alarm'
Input	: Potential free contact		
Indication	: 9 9 9 . 9 12.5 mm RED LED display	Fault Delay time	: Settable from 0 to 99 second
Number of digits	: 6 (2 for channel number, 4 for cumulative time)	Interface	: USB prendrive suitable for 8 Gb pendrive
		Data storage format	: CSV file (editable in MS Excel)
Response time	: 100 msec	Password protection	: Default password 134
LED indication	: 16 nos of 3 mm RED LEDs for input status	Front facia	: ABS plastic suitable for IP 55 having size 192 x 96 mm
Power supply	: 230 V AC, +/- 10 % , 50 Hz with earth		
Relative humidity	: Less than 90% non condensing	Panel cutout	: 186 x 92 mm
Ambient temperature	: 0 to 55°C	Mounting	: Flush panel
Programming	: Using 4 keys membrane keypad. Default password is 134	Enclosure	: Mild steel CRCA sheet with powder coating
Power consumption	: 6 VA	Termination	: Screwed type suitable for 2.5mm^2 wire
Channel skip	: By setting scan time as zero	Weight	: 1 kg approximately
Scan time	: Individually adjustable from 0 - 99 seconds		
Real time clock	: Built in with 24 hours format		

INSTALLATION

■145
■Depth including terminals

ORDERING INFORMATION

Event Logger

X1

No. of Inputs
1 - Eight
2 - Sixteen

X2

Panel Cutout
6 - 186 x 92

X3

Power Supply
1 - 230 V AC
2 - 110 V AC
3 - 24 V AC
4 - 24 V DC
5 - Other

Ordering eg. Event Data Logger - 261
No of inputs - Sixteen   (2)
Panel Cutout - 186 x 92   (6)
Power Supply - 230 V AC   (1)

ALSO SELECT ESD ...

BACK END	SAME RANGE	FRONT END
✔ Pt - 100	✔ Scanners	✔ Automation Panels
✔ Thermocouples	✔ Scanners With Alarm	✔ PLC
✔ Thermowells	✔ Scanners With Controllers	
✔ Compensating Cables		

Unspecified dimensions are in mm.   Photos not to the scale.   Due to continuous development above details are likely to change.