



# ECOLOG Datalogger Series

## Easy Solutions



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**ELPRO**™  Datalogging Company

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The ECOLOG TP stands for precision measuring and evaluating of temperatures in the -200°C..550°C range. This universal datalogger, based on the standardized PT100 measuring technique and with a comprehensive assortment of sensors and accessories, can be used for widespread applications ranging from monitoring low temperature to documenting drying processes.

- 2 - 4 channel dataloggers
- Principle of measurement:  
4-wire PT100 in accordance with IEC751 / EN60751
- Digital inputs and evaluation with elproLOG software at PC
- Large display for current measured values and alarm information
- Programmable recording interval
- One-year memory capacity for 64'000 measured values
- Keypad at datalogger:  
- Displays measured values and alarms  
- Controls printing functions  
- Resets alarm output  
- Starts logging
- Open interface for communication with other devices
- Low energy consumption due to power-save mode
- Also available with EEx approval (details on page 8)

### COUPLERS



Part No. 3032-VNP  
DB15 LEMO connector for simple temperature probe replacing

### MOUNTING BRACKETS



Part No. 2801-CR  
Mounting bracket with terminals  
Part No. 2801-C-Ex with EEx approval

### PT100 TEMPERATURE PROBES

Resistor probes EN60751; temperature range type-depending from -200°C..550°C  
Contact us for information about additional PT100 temperature probes or visit [www.elpro.com](http://www.elpro.com).

Part No. 3163-Lxx  
DIN A probe, -90°C..260°C, stainless steel, LS = 100 mm, D = 4 mm



Part No. 3181-Lxx  
DIN A probe, steam-resistant, autoclavable, -200°C..180°C, LS = 100 mm, D = 5 mm



Part No. 3165-Lxx  
DIN A ML probe, -200°C..500°C, stainless steel, bendable, LS = 350 mm, D = 3 mm



Part No. 3164-Lxx  
DIN A probe, -50°C..260°C, stainless steel, pointed, LS = 100 mm, D = 4 mm



Part No. 3167-Lxx  
DIN B probe, -80°C..105°C, synthetic, molded, LS = 20 mm, D = 5 mm



Part No. 3174-Lxx  
ML probe, -80°C..350°C, stainless steel, bendable, LS = 50 mm, D = 2 mm



Part No. 3169-Lxx  
DIN A probe, 0°C..500°C, stainless steel, glass fiber cable, LS = 50 mm, D = 6 mm



Part No. 3173-Lxx  
DIN A screw-in probe, -50°C..120°C, R1/8", LS = 24 mm, D = 3 mm



Part No. 3160  
DIN A plug-on probe, -35°C..55°C, LS = 30 mm, D = 10 mm



Part No. 3171-Lxx  
Surface probe, 0°C..180°C, 6x10x35 mm, can be screwed down with bonding foil (up to +80°C)



Part No. 3159-Lxx  
Foil probe, class 0.5, 0°C..180°C



Part No. 3168-Lxx  
Tight foodstuff probe, DIN A, -50°C..180°C, synthetic, LS = 120 mm, D = 4 mm

### ECOLOG TP2



Part No. 2425-2T  
TP2, red housing

Part No. 2425-2TEx  
TP2, with EEx approval in accordance with ATEX (details on page 8)



Part No. 2425-2TW  
TP2, white housing



- 2 channel datalogger (PT100) for external sensors
- Measuring range: -200°C..550°C
- Programmable alarm functions with alarm output

- Keypad for datalogger control and configuration
- 1 digital input
- Direct printout of measured values and alarm data at protocol printer

### ECOLOG TP4-L



Part No. 2425  
TP4-L, red housing

Part No. 2425-Ex  
TP4-L, with EEx approval in accordance with ATEX (details on page 8)



Part No. 2425-W  
TP4-L, white housing



- 4 channel datalogger (PT100) for external sensors, with LEMO connector
- Measuring range: -200°C..550°C
- Programmable alarm functions with alarm output

- Keypad for datalogger control and configuration
- 1 digital input
- Direct printout of measured values and alarm data at protocol printer

# ECOLOG Accessories for all models

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### ALARMING



Part No. 2311-B  
Alarm flash xenon flash red



Part No. 2311-C  
Alarm flash with siren



Part No. 2312  
Alarm flash for logger and bracket with EEx approval



Part No. 2340-T  
Sender for radio alarm



Part No. 2340-R  
Receiver for radio alarm



Part No. 2341-B  
Automatic telephone dial unit (example)

### MOUNTING BRACKETS



Part No. 2804-A  
Mounting plate



Part No. 2804-E  
Holding plate padlockable (lock not included)



Part No. 2804-B  
Holding plate with bracket for connector

### HOUSING



Part No. 2350-x  
Casing IP66



### CONNECTORS



Part No. 3202-2PB / Part No. 3202-4PB  
LEMO connector, 2-pin or 4-pin mounting



Part No. 3032-B  
DB15 connector, incl. customer-specific assembly, number of cables is limited



Part No. 3034  
DB15 connector for self-mounting

### ADAPTERS



Part No. 2317-USB  
USB-RS232 adapter for connecting datalogger to PC USB port



Part No. 2318  
PC data cable for PC evaluation

### TEMPERATURE SENSORS ACCESSORIES



Part No. 3211-y  
Mounting flange



Part No. 3211-Byy  
Screw clamp



Part No. 3095-T  
Measuring nipple TWINLOK

### BATTERY



Part No. 2820  
Replacement battery for ECOLOG datalogger, set with 2 batteries, storable for at least 5 years

### Temperature measurement TPx

(only datalogger at room temperature)

Measurement range	Resolution	Linearity
-200°C .. -101°C	0.2°C	±0.3°C
-100°C .. 399°C	0.1°C	±0.2°C
400°C .. 499°C	0.1°C	±0.3°C
500°C .. 550°C	0.2°C	±0.5°C

### Temperature measurement TNx and THx

(datalogger with temperature sensor, logger at room temperature)

Measurement range	Resolution	Typical accuracy (U95)
-50.0°C .. -25.0°C	0.1°C	±0.4°C
-24.9°C .. 0.0°C	0.1°C	±0.3°C
0.1°C .. 70.0°C	0.1°C	±0.2°C
70.1°C .. 100°C	0.1°C	±0.4°C
100.1°C .. 140.0°C	0.1°C	±0.7°C

### Accuracy of measurement rel. humidity

At room temperature	23°C	±1.5% rH
Hysteresis	10-90-10% rH	<1% rH