

Accessories

BATTERY DATA LOGGER

BATTERY DATA LOGGER 12-80V - WI-FI



The ZTP-Drone battery datalogger can be programmed initially by WIFI, no interface needed.

▶ BAT/49206 (Universal)

The ZTP-Drone battery datalogger is connected to an industrial battery. All important parameters are measured as the total voltage of the battery, the current, the temperature and the level of the electrolyt.

New : also the voltage in the middle of the battery is measured to detect a defective cell. All these data are stored internally for more than 1 year if needed. The ZTP-Drone battery has several LED's to allow visual warnings as the low level of the electrolyt.

▶ BAT/49294 (Option)

The BAT/49294 is a ZTP-Drone battery datalogger with a canbus-connection to control the ZIVAN charger. The datalogger will take over the control of the charger to allow an optimal charging profile in function of the battery (automatic choice of voltage, current, etc based on type of battery, temperature, SOC% ...)

Optional:

The datalogger can be programmed by PC with following tools:

- CAN To USB Converter (ZIV/Z-C13105)
- CAN Cable (BAT/49317)

The datalogger can be programmed by WIFI:

- Internet connection of your PC by hardware cable or UMTS
- Datalogger connection by WIFI

TECHNICAL FEATURES

- Multivoltage 24-96V
- Dimensions 164x46x38 mm
- Input for voltage (+ ; - and middle voltage), current sensor (Hall), temperature sensor and electrolyt level sensor. The sensors are included
- Wifi communication
- Internal memory
- IP68

Supplied complete of:

- current sensor
- thermic sensor
- electrolyte level sensor

When the ZTP-Drone datalogger detects a local Wifi network, the data is send to the ZTP-Cloud application. The ZTP-Drone datalogger doesn't need a continuous Wifi network, it's sufficient to have a local network at the charger room. If there is no local Wifi network or you don't want to use your local network, a local Wifi hotspot with 4G is a good alternative.

The free ZTP-Cloud application converts all data of all your dataloggers to one main screen. This dashboard gives an overall view of the use of the batteries of each department, you can find easily all fault messages (high temperature, wrong charger, defective cells but also opportunity charging ...) and shows all detailed information of each battery in simple graphs for fast analysis. You can export all data to an excel datasheet.

In case of remarks the ZTP-Cloud always points out some actions to solve the problem

☰ Actions required

More than 35% of the cycles appear to be incomplete charges.
 • Check the charging cycle is correct.
 • Check the use of the battery, avoiding opportunity charging.

History

Alarm number	Cycle	Date	State	Alarm detail
1720	1778	Wednesday, February 26, 2020 8:4 PM	Warning	Warning high voltage
1781	1760	Wednesday, February 26, 2020 8:53 AM	Event	Event opportunity charge
1709	1760	Tuesday, February 25, 2020 7:17 PM	Warning	Warning high voltage
1693	17032	Tuesday, February 25, 2020 8:46 AM	Event	Event opportunity charge
1674	16994	Monday, February 24, 2020 8:45 AM	Event	Event opportunity charge

Simple graphics/interface



Warning opportunity charging



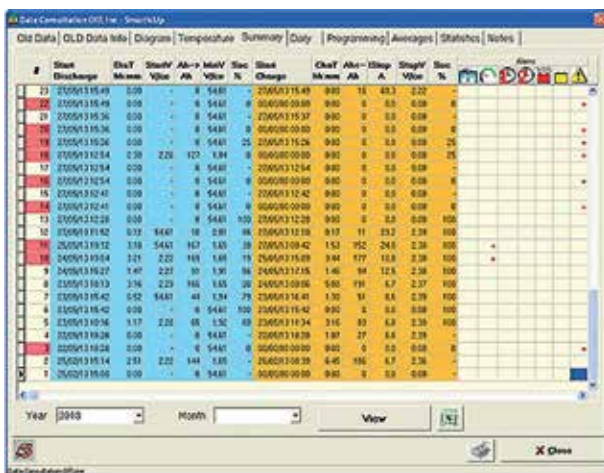
SMART.UP VERSION 24/36/48/72/80/96 VOLT

SmartUP is a device designed for the monitoring and control of lead batteries.

FEATURES

- Battery Monitoring devices
- Data Memory 400 working cycles
- For batteries 24/36/48/72/80/96V (12V available on request)
- Hall effect sensor
- Discharge time and capacity
- Battery faults and failures occurring during the charging process USB Flash memory for data downloading
- USB Cable for programming
- Possibility to connect with RS 485 & CAN BUS
- IP54 protection
- Working temperature -20° to +50°

SUMMARY



The data analysis can be done in an intuitive way. You can consult the "Monthly Summary" Tab.

On a table are shown all of the battery working cycles:

1. In blue the discharging phase
2. In orange the charging phase

The anomalies are indicated with red dots:

3. Low electrolyte level
4. Overdischarged Battery
5. Timer 1° phase
6. Timer 2° phase
7. Overrecharge
8. Low battery efficiency
9. Recharging not completed

OPTIONAL



▶ **BAT/47499**
USB cable



▶ **BAT/47500**
USB Flash drive



▶ **BAT/37099**

100 ÷ 340 Ah

▶ **BAT/37102**

350 ÷ 740 Ah

▶ **BAT/37100**

750 ÷ 1500 Ah

TECHNICAL DATA

Stored working cycles	400
Current and voltage graphic data	11400 samples (47 days setting Sampling Time = 6min)
Stored daily data	Last 30 days

WORKING RANGE

Current size: BAT/37099	Suitable for batteries from 100Ah to 340Ah
Current size: BAT/37102	Suitable for batteries from 350Ah to 740Ah
Current size: BAT/37100	Suitable for batteries from 750Ah to 1500Ah

ELECTRICAL DATA

Power supply min ÷ max	18V ÷ 144V
Average absorbed power	< 1.5W
Internal protection	Fuse at the supply port
Working temperature	-20°C ÷ +50°C

PHYSICAL DATA

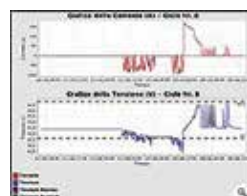
Mechanical size	60mm x 60mm x 130mm
Weight	200g
Protection grade	IP 54

SUMMARY



400 working cycles stored (Discharge/Recharge)

- Discharging time and capacity
- Recharging time and capacity
- Detailed working data
- Battery faults during the battery use and recharge



Battery voltage and current diagrams

- Working cycle Data e Time
- Zoom capability



Accessories

BATTERY DATA LOGGER

The eGO! battery life monitor is the latest and most advanced battery life monitor available on the market, turning any lead-acid battery into a smart battery. This data can be used to:

- Improve maintenance procedures.
- Increase run-time and reduce costs.
- Assign accountability for battery abuse.

The wide range of metrics recorded by the eGO! can be used to improve the overall performance of a battery fleet.

Data is key. The eGO! unlocks the potential in your batteries, providing key metrics to help maximise performance.

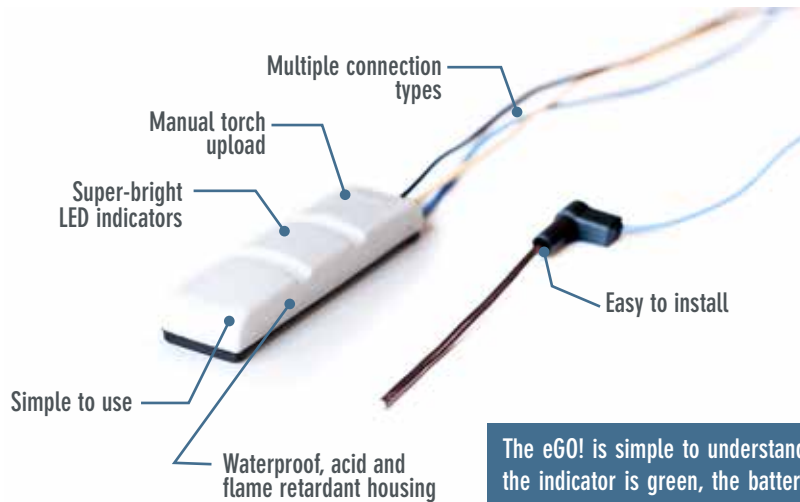
Reference	BAT/50603
Operating voltage	12V
Nominal Current	30 - 100mA
LED Indications	Amber: Over temperature Green: OK Red: Fill now Blue: Comms Operating
SmartDelay	24 hours (Standard) 5 Day (Optional)
SmartSense	Yes
Reverse Polarity protection	Yes
Housing	Translucent Overmold
Over-discharge threshold	80%
Connections	(S) M4 Steel Ring and Screw (Q) FlexiTap
Fuses	M4 FlexiTap
	1 x board, 2 x In-line 1 x board, 2 x FlexiTap
Warranty	1 Year
Flame retardant	Yes
M4 Connection	EGOC-12SE EGOC-12SG
FlexiTap connection	EGOC-12QE EGOC-12QC
Cable Colours(s)	Black (-), Yellow (+), Blue (P)
Flashing Patterns Flooded VRLA	OK / Fill Soon / Fill Now / Over temperature / Comms On Over temperature / Comms On
Dimensions Length Width Height	100mm 30mm 18mm
Weight Flooded VRLA	0,08kg (80g) 0,1kg (100g)

DATA DONE RIGHT

The data that the eGO! records is automatically captured and uploaded via our CloudLink gateway, giving you a fully integrated and seamless feedback loop. It tracks and records:

- Download data
- eGO! serial number
- Cell voltage at download
- Temperature at download
- Electrolyte status at download

From work, rest, charge, and cool down hours to opportunity and abuse cycles, once uploaded, the complete performance of a battery can be seen online.



The eGO! is simple to understand. When the indicator is green, the battery water levels are good, and when it is red, the battery needs water. Three green pulses and one red means fill soon. The orange indicates the battery is above temperature (40°C - Electrolyte / 37°C - Gel), and a blue LED indicates communication.

The eGO! has been designed with ease of use in mind and works perfectly with the eGO!Tools app. You can now trigger manual data uploads directly from the app, access a tailored site list, and review key metrics. This synchronisation gives battery room technicians complete flexibility, speeding up productivity, and efficiency.



Avoid unnecessary wear
 Maximise charge cycles
 Prolong battery lifespan



FOR A MORE EFFICIENT BATTERY-POWERED FLEET

Batteries are integral to your business. But you know how challenging they can be to manage. They're hard to replace. They're expensive. They're difficult to monitor.

Our battery monitoring system integrates seamlessly with GemOne's telematics or works as a standalone solution so you can monitor the health and status of your batteries and boost your fleet efficiency.

LOWER YOUR OPERATIONAL COSTS

Monitoring battery conditions, fillings, improper use, and service intervals allows you to significantly lower the costs of your operations.

BATTERY MONITORING SOLUTION

The batteries that power your industrial fleet drive your business forward. Avoid their unnecessary wear. Maximise their charge cycles. Prolong their lifespan. Our battery monitoring solution unleashes the potential of your battery-powered fleet.

GET REAL TIME INFORMATION

Get reports and warnings on all relevant battery parameters, including voltage, current, temperature, internal resistance, state of charge, and state of health.

INSTALL OUR SOLUTION EASILY

An easy to set up system which allows you to monitor all your batteries on one single platform.

Reference	BAT/50960	BAT/50961
Working voltage	8-95V ± 0.1V	50-150V ± 0.1V
Measuring Current	±300A ±0.5A	±800A ±0.5A
Interlock relay	20A@5V	
Working temperature	-20°C to 70°C	
Connectivity	Global 4G network	
Level sensor	Bayonet or drill hole	
Bluetooth low energy	4.2/5.0	
RS485	MODBUS	
General input	Support up to 80VDC input	

