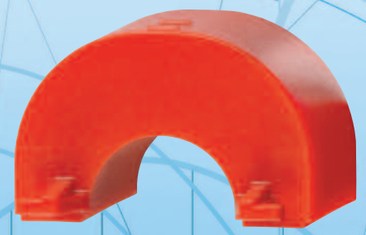
BENNING
World Class Charging Systems

Excellent Technology, Efficiency and Quality

BATCOM digital+

- Battery monitoring
- Status indicator
- Data logger
- BLUETOOTH® communication



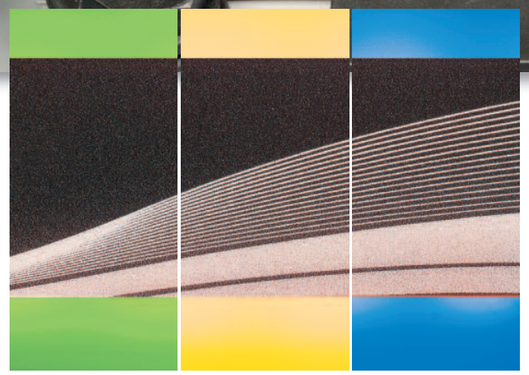
Simple installation using a flexible attachable current measuring device (Hall sensor)

The BATCOM digital+ is a current measuring device for recording the current from a battery. It opens easily and can be attached to any cell connector or discharge cable without having to undo the cell connector. Voltage measurement with automatic voltage detection (range 18 V – 120 V DC) is done at the pole terminals of the relevant drive battery.

The smart generation of battery controllers with bidirectional communication

A high level of availability for electric industrial trucks is now essential for safe and efficient operation.
Checking the charge-discharge behaviour of the drive batteries, as well as monitoring battery temperatures and electrolyte levels, are important measures for ensuring the fleet remains in operation for as long as possible.

In the leasing and rental business, long service life guarantees means that recording and documenting battery data, as well as monitoring the condition of the battery, are also of great importance.
The new BATCOM digital+ generation of battery controllers allows relevant operational data about the interactions between the industrial truck, drive battery and charger to be easily recorded, saved and accessed at any time via Bluetooth® communication.
The battery controller has a very robust and compact housing that is easily attached to the top side of lead acid batteries without requiring any special tools.



Freely configurable LED indicator display | *Status: Low battery charge* | *Status: Electrolyte level too low*

The large LED status indicator is visible from a distance and clearly shows various information, data and notifications such as:

- battery temperature
- faults
- low electrolyte level
- current charging status

With this concept BENNING is bringing the tried-and-tested and clear indicator lamp system, used for decades on charging units, to the new battery controllers. The desired colour combinations and associated notifications can be individually programmed and selected via software.

BELATRON 80 V - 255 A

Bluetooth®

Simple communications between charger, battery controller and computer or smartphone/tablet

The new BATCOM digital+ generation of battery controllers developed by BENNING offers a high degree of reliability and flexibility. The wireless communication allows a bidirectional data exchange.

Using the appropriate app for a range of different devices and Bluetooth® low energy technology, you can set up a quick and uncomplicated connection with a PC and mobile devices such as tablets and smartphones.

Another key advantage: Communication with high-efficiency charging units from the BELATRON range. It allows optimal coordination for various things such as

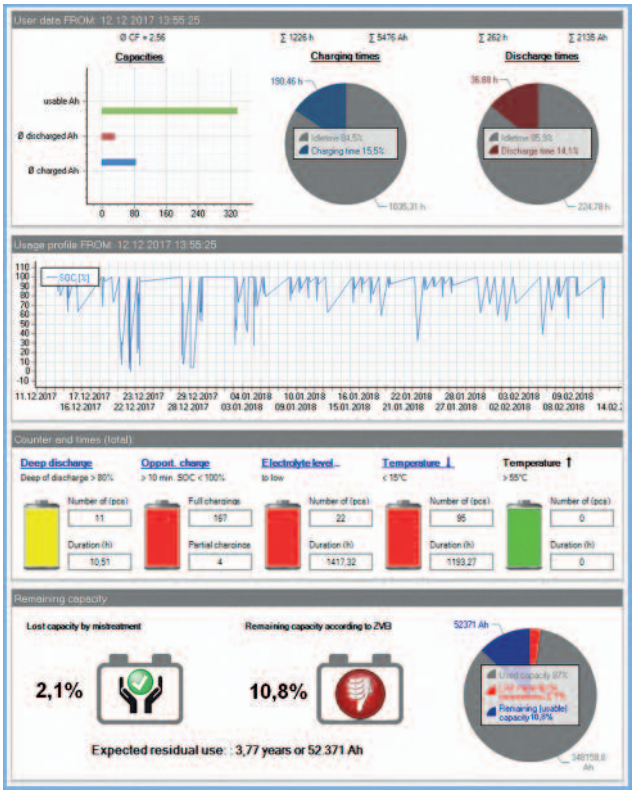
- adaptation of charging behaviour depending on battery temperature (e.g. in cold store applications or high ambient temperatures)
- transfer of battery data for configuring optimal charging parameters
- optimisation of operational charging processes

Maximum availability and operational security

Technical features:

- integrated data logger for comprehensive battery use evaluation
- integrated event logging for recording battery parameters
- integrated statistics counter for the entire life cycle of the battery
- detailed battery report with just one click

Visualisation of key battery data, e.g. charging status, temperature, battery voltage and current.



Clear and easy to understand usage report containing battery data

BATCOM digital+	
Voltage range	18 – 120 V DC
Current draw	max. 60 mA at 18 V DC
Current measurement range	± 3.5 – 1000 A
Operating temperature range	-10 to 60 °C
Permitted storage temp.	-20 to 60 °C
Relative humidity	< 90 %
Permitted altitude	up to 2000 m above sea level
Protection class	IP 65 according to EN 60529
Casing	PC-GF10 plastic casing, resistant to diluted sulphuric acid with an acid density of up to 1.4 kg/l
Dimensions (L x H x W)	
Controller	144 x 44 x 20 mm
Measurement device	65 x 47 x 22 mm Hole diameter = 20.8 mm
Weight	
(without / with measurement device)	245 g / 400 g
Standards	
	2014/35/EU – Low voltage directive 2014/30/EU – Electromagnetic compatibility
	Shock and vibration tested according to IEC 68-2-29 and IEC 68-2-6
Part numbers	
BATCOM digital+	10175218
BATCOM digital	10176522 (version without measurement device)

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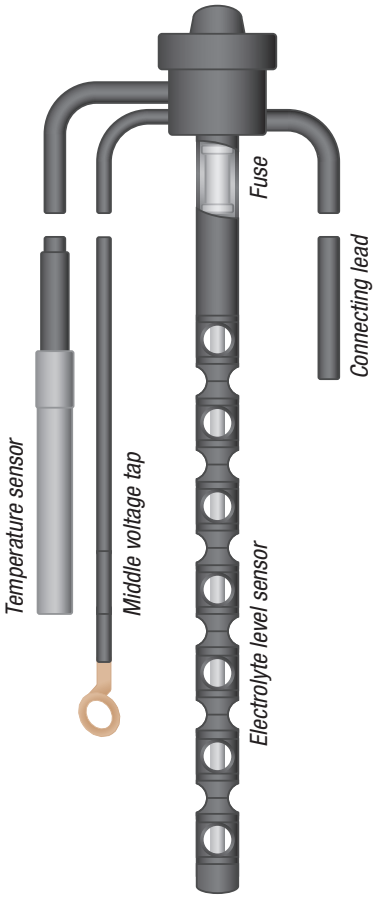
The LCD display shows clear and detailed information about the battery, e.g. voltage, current charging status, temperature, time elapsed since last charge, as well as information about faults such as deep discharge, low electrolyte levels and temperature problems.

Special features of the new BATCOM digital+ battery controller

- **Current measurement using a Hall sensor in a flexibly attachable current measurement head**
- **Bidirectional data transfer using Bluetooth® low energy technology**
- **Large programmable LED status indicator**
- **Digital display for e.g. voltage, charging status, temperature, etc.**
- **Software for system analysis (desktop/mobile)**
- **Compact dimensions for easy attachment**
- **One battery controller for all battery voltages and capacities**

The multifunction sensor developed exclusively for the BATCOM digital+ combines three measurement functions in one smart system.
Installation of the sensor for electrolyte monitoring is done using a cell cover in the intended area.
To check the battery temperature, the temperature probe is simply inserted between the middle cells of the lead acid battery.
The medium voltage reading is used to monitor battery symmetry. This allows the early detection of invisible cell defects so that appropriate measures can be taken to avoid any disruption to operation.



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