



Now Also Lead Free!

CAPACITIVE ELECTROLYTE LEVEL SENSOR

for all flooded batteries



COST SAVINGS

RELIABILITY

QUALITY

*Save on maintenance
and operation costs.*

*Increase reliability and quality
of your operation and extend
the lifetime of your battery!*



ABERTAX® CLS

The ABERTAX® Capacitive Electrolyte Level Sensor (CLS) uses Patented Technology that provides numerous advantages over all other sensors on the market.

The Abertax CLS was designed to meet the harsh electrical, mechanical and chemical environments present on flooded batteries. Its patented technology is the result of extensive research work in all the above engineering fields.

When green, the sensor indicates that the electrolyte is at or above the specified minimum level. When flashing red, the sensor warns that the electrolyte is below the minimum level.

The sensor is designed to operate up to a maximum voltage of 18V. The electronics will shut down above this voltage to protect other circuit elements and the sensor itself. When the voltage is subsequently reduced, the system will automatically reset and resume operation. This is an important advantage resulting in an extremely reliable product.

Similar products on the market simply blow a fuse and stop functioning.

In extreme cases when the voltage exceeds 40V, additional overload protection in the form of a fuse is triggered to protect the sensor from being exposed to such potentially dangerous voltages.

This multi-stage over-voltage protection mechanism protects the sensor against both sustained high supply voltages as well as voltage transients that can occur on the battery: successful protection that is, to date, employed in over one million sensors worldwide.

Another important feature is protection against reverse polarity connection to the battery. Unlike other sensors, which simply fail irreversibly, the Abertax CLS will not operate when incorrectly connected. No damage will be done to the sensor in this case, and it will resume operation when connected correctly.

Apart from the above, all of the 3 electrical connections to the sensor (+ve, -ve and probe) are individually over-current protected, making the Abertax CLS the only choice where safety and reliability are important requisites.

New Lead Free probe option!

Our new lead-free CLS comes with a carbon fibre probe that offers the same technical features as the lead probe model. Operators are no longer exposed to hazardous lead resulting in a safer, cleaner workplace, greatly simplifying the disposal of any trimmed parts of the probe. All this maintaining the same high standard you have come to expect from our CLS!

PRODUCT FEATURES

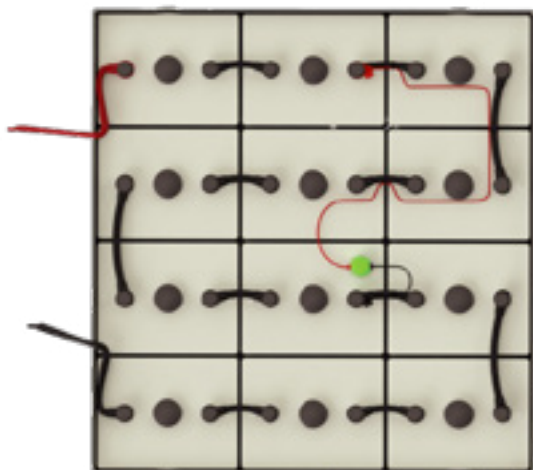
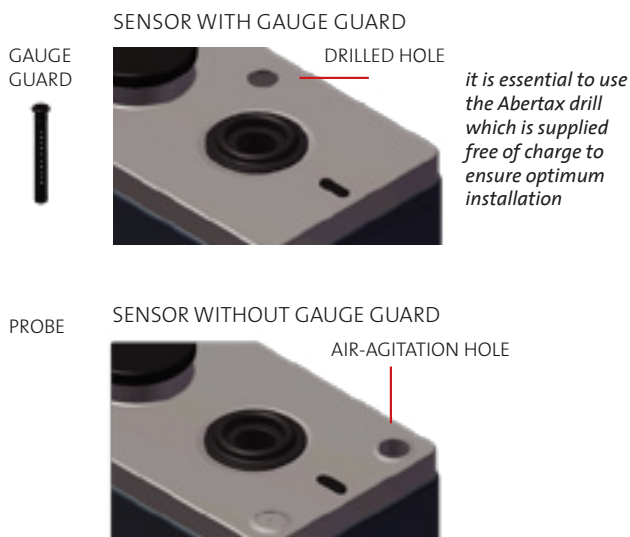
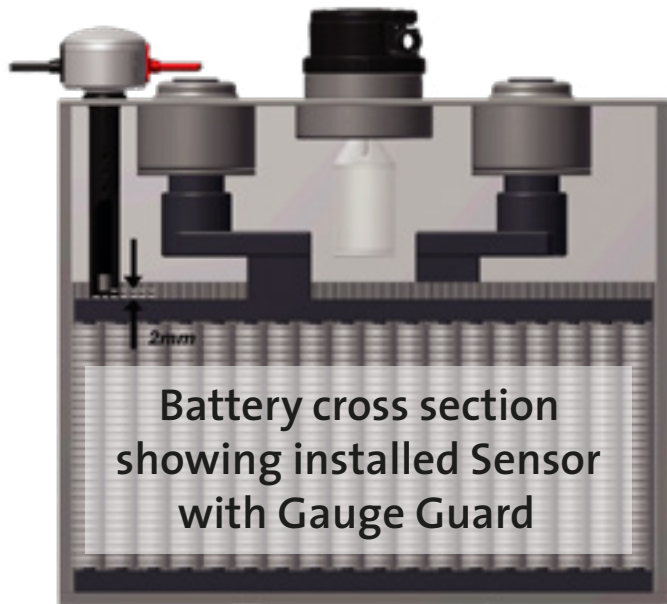
- Patented Technology that eliminates electrolytic corrosion between the probe and cell plates
- Easiest installation in the shortest time by qualified service personnel
- Allows installation in any of the 6 cells supplying the sensor
- Supply wires are fed from opposite ends of the sensor to eliminate wire loops and allow maximum isolation
- Robust protection against voltage & current transients and reverse polarity connection
- Protected against electromagnetic interference
- Patented connector designed for Bolted battery terminals, other connectors for Welded type also available.

WHY USE THE PATENTED ABERTAX® CLS?

- 1. SAFETY** The ABERTAX® CLS boasts robust construction, free of any potential danger to the battery and safe against any high inrush current, or high voltage transients.
- 2. RELIABILITY** The ABERTAX® CLS is not susceptible to corrosion on the probe and does not cause corrosion on the battery plates. Sensor probe with Gauge Guard prevents the probe from touching the separators.
- 3. EXTENDED WATERING INTERVALS** The ABERTAX® CLS probe can be placed above the plates and between the separators, thus indicating a low electrolyte level only when it is really at its lowest level (as late as possible.) This means watering intervals can be extended for substantial savings from reduced service intervals.
- 4. EASY ASSEMBLY** The ABERTAX® CLS probe can be placed in any of the power supporting cells allowing flexible assembly. The patented connector fits & seals perfectly on the bolted terminals. No additional parts and handling required.
- 5. HIGHLY VISIBLE** The ABERTAX® CLS uses bright LEDs combined with the diffusion properties of the sensor's encapsulation ensures a highly visible and reliable indication at all times.
- 6. STANDARDS / APPROVALS** ETL approval according to UL regulation UL 61010-1, CAN/CSA 022.2#61010-1, CB.
- 7. VARIOUS OPTIONS** A large selection of different designs to meet different customers needs.

If these are all essential requirements for you, then the only choice is the ABERTAX® CLS.

INSTALLATION ON BATTERY



Installation sample for 24V battery

ABERTAX® CLS PRODUCT TYPES



TECHNICAL SPECIFICATIONS

Nominal Supply Voltage:	12V (6 x 2V cells)
Max. Operating Volt. (12VDC nom.):	18VDC
Min. Operating Volt. (12VDC nom.):	10VDC
Current Consumption @ 12VDC:	<20mA
Operational Temp. Range:	-30°C to +70°C
Protection Class:	IP65
Approx. Weight (Standard Type):	60g
Diameter Probe (Including Seal):	5mm
Diameter Hole for Gauge Guard:	10mm
Dim. Sensor Housing:	30mm diameter, 20mm height

OPTIONS AND CONNECTIONS

Connector Options



SC - Standard Connector



TC - Terminal Connector



WLW - Washer with Leading Wire (Patent Protected)

Probe Options



External Probe
for use with Gauge Guard
& Air Agitation Hole



With O-Ring

LED Options



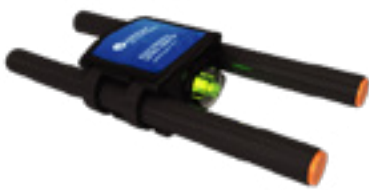
LED with Interblade
Connection



External LED with
Lens Cover



LED with
Strapping Bracket



External LED for mounting
between Battery Cables

Accessories



10mm drill
with depth
stopper



Gauge
Guard



Plug



Sleeve

ABERTAX® TECHNOLOGIES
Leaders in Battery Ancillaries

ABERTAX® Technologies Ltd · KW17A Corradino Industrial Estate · Paola PLA 3000, Malta
Tel +356 23 678100, +356 21 660606 · Fax +356 21 808625 · info@abertax.com · www.abertax.com
Int. Patent Protection on all Products. Product made in the European Union.