

Test Stations & Power Supply

Installation solutions for MetriCorr Remote Monitoring Units
Big Fink, Junction Box or Customer specific embodiments

FEATURES

Protection of measurement equipment against the environment

Easy access to loggers and probes

Battery powered for +3 years of remote monitoring

Easy replacement of batteries

Solar powered units ensures continuous remote monitoring for many years

Discrete design as protection against theft and vandalism.

DESCRIPTION

MetriCorr offers a wide range of installation embodiments for our remote monitoring solutions for pipeline and similar applications. Besides our standard solutions, we acknowledge the diversity of test station designs adapted amongst operators and strive to meet requirements.

All MetriCorr loggers; ICL, ICL-C and VL100 are IP 65 rated and fits into Big Fink test stations (see example on the right). This allows for simple implementation of the loggers into existing test stations. With a concealed battery, like the top-hat battery for Big Fink, it will be a high-tech RMU in disguise as any other test station.

MetriCorr has delivered thousands of test-posts to our costumers and we know how challenging it can be to keep them tight. Our Junction Box is an IP68 rated rugged design test post with an option for IP68 rated cable fittings for all connections to pipe, reference electrodes, coupons and probes. This design is highly configurable and can be supplied with up to 2 MetriCorr dataloggers.

Finally, we are happy to supply equipment for customer specific installations.



INSTALLATIONS (ABOVE) We also have an installation for your system!



JUNCTION BOX (left)

The Junction Box from MetriCorr is highly customizable to meet our customers needs. The shown example features a large 10W solar panel and rechargeable battery for continued measurements. The box measures 400x400x200 mm (larger options available).

BIG FINK adaption (right)

The Slimline loggers fits right into standard Big Fink test station. No additional mounting needed!



Technical specifications

POWER OPTIONS

Powering of loggers and RMU's is not as simple as it sounds. Different challenges requires different solutions. Below are some of our available power supplies which will satisfy any challenge. All power supply solutions are compatible with all MetriCorr monitoring devices. Below examples are based on our ICL loggers for ER probe readings which is by far the most power demanding measurement we offer.

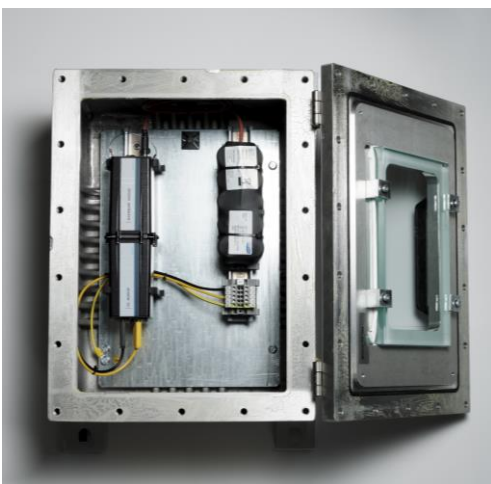
Power Options				
Solution	Battery top-hat for Big Fink (a)	Solar top-hat for Big Fink (b)	Battery pack (long/short) (c)	Junction Box w. solar (d)
Power supply	Li-Thionyl-Chloride battery	Solar + lead crystal battery	Alkaline battery	Solar + lead acid/crystal battery
Solar panel output	-	3 W	-	10 W
Battery voltage	7.2 V	12 V	15 V	12 V
Capacity (Ah) (nom/useful)	42 / 21	1.2 / ∞	16 / 8	12 / ∞
Standby current	0.07 mA	0.07 mA	0.07 mA	0.07 mA
Measurement	0.6 mAh	0.4 mAh	0,3 mAh	0.4 mAh
Transmission*	15 mAh	10 mAh	8 mAh	10 mAh
Expected operating time (years)	6.3 / 3.2 ** 3.7 / 1.9 ***	-	4.4 / 2.2 ** 2.6 / 1.3 ***	-
Shelf life				
Temperature range				-20°C – 45°C -40°C – 65°C****

* Highly dependent on connectivity

** Hourly measurement – weekly transmission

*** Hourly measurement – daily transmission

**** Low temperature options are available



ATEX ZONE (left)

ATEX environment? Contact our staff directly for options. We have experience and are ready to find the right solution

CUSTOMIZABLE METRICORR SOLAR PANELS (right)

MetriCorr has developed an oval solar panel that includes solar panel, charger and battery (same specifications as "Solar Top Hat"). It can easily be modified to fit any test station dimension with internal tube dimensions from Ø 80-125mm. It also fits directly on top of a Big Fink top hat.

