MOBILTEX

CorTalk® PI-1

POCKET CATHODIC PROTECTION INTERRUPTER

CorTalk
a MOBILTEX brand



THE EVOLUTION OF THE GPS SYNCHRONIZED CURRENT INTERRUPTER

Based on the award-winning concept that originated with Taku Engineering, MOBILTEX has enhanced the field-proven design of the CorTalk PI-1 Pocket Interrupter to deliver an even more robust, reliable and innovative solution for field CP interruption.

GPS-synchronized CP interrupters have historically been large, bulky devices with large external batteries that often required daily charging. Mobilizing to the field with enough interrupters for even small jobs with several galvanic CP systems could require hundreds of pounds of equipment. Often locations are extremely remote and may require plane or helicopter access, which combined with the required timing and equipment creates an expensive, logistical nightmare.

The MOBILTEX Pocket Interrupter One (PI-1) is a handheld, light weight two-channel GPS time synchronized cathodic protection (CP) current interrupter that makes these challenges a thing of the past. Capable of interrupting two CP current sources of up to 1 Amp and 20 Volts each, the PI-1 interruption channels provide standard On/Off cycles from 1-30 seconds and it includes a programmable external relay control. Plus there's no computer or smart device required to setup so it's simple to change interruption cycles on the fly.

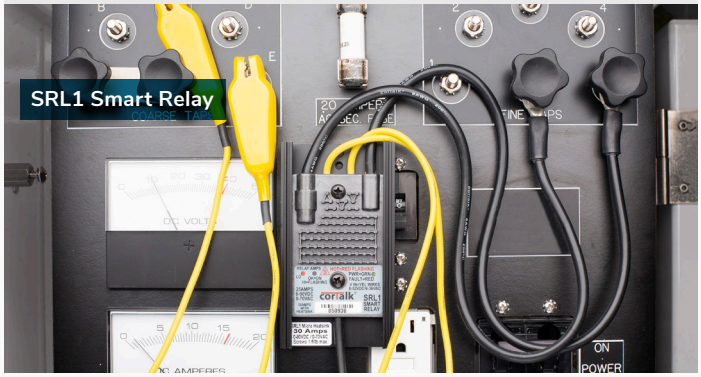
MP MATERIALS PERFORMANCE
CORROSION INNOVATION OF THE YEAR AWARDS
- WINNER 2019 -
TAKU ENGINEERING VERSION

The PI-1's rugged, portable design makes it simple to transport enough interrupters for a large job in a single pack. The 15-day battery life allows multi-day jobs to be completed on a single charge and a half-hour charge will supply almost a full day of run time. And with a small solar panel (25 mA @ 6-20 Volts) the runtime is unlimited.

Let the PI-1 evolution begin.

ADVANTAGES OF CORTALK PI-1

- Powerful 72-channel uBlox 8 Series GPS Receiver delivers exceptional reception and accuracy even indoors or in locations with historically poor reception.
- 2 channel interruption of any CP current source up to 1 Amp and 20 Volts each with independent timing parameters for each channel.
- Compatible with MOBILTEX Smart Relays [SRL1 & SRL2] to expand to 100 Amps and 100 Volts.
- Full IP68 Ingress Rating allows the device to be completely submerged in water for short periods of time and can withstand dust, dirt, and sand.
- -40° to +60°C (-40° to +140°F) operating temperature range allows use in extreme environments.
- Extremely lightweight and portable design fits in one hand and can be carried in your pocket.
- AC/DC Multiport and Micro B USB rechargeable battery provides long runtimes of up to 15 days.
- Graphic display with detailed intuitive menus allow for easy field operation.
- Internal expansion connector for future peripherals.


SRL1 Smart Relay

PI-1 SPECIFICATIONS

ENVIRONMENTAL

Operating temperature:	-40 to +60 C (-40 to 140F)
Charging temperature:	0 to +40 C (32 to 104F)
Storage temperature:	-40 to +70 C (-40 to 158F)
Humidity:	0 to 100% RH non-condensing
Pollution Degree:	1
Maximum Altitude:	5000 meters above sea level

PHYSICAL

Physical size:	150 x 88 x 30 mm (5.9” x 3.5” x 1.2”)
Device weight:	300 grams (0.6 lb)
Display:	2.7” 400 x 240 px
Enclosure:	UV stable, wide temperature polycarbonate

POWER

Battery	Internal Li-Ion (3500mAhr, not user replaceable)
Charge Time	8 hours maximum
Charging Power	6-20 V AC/DC Multiport 5 V, 500 mA USB Micro B
Battery Life (continuous internal interruption & GPS)	15 days, 12 hours / day

INTERRUPTION OUTPUT

Relay drive voltage	6 VDC / 12 VDC User selectable
Relay drive current	0.1 A / 0.3 A maximum
Relay contact close dwell	5-150 ms
Relay contact open dwell	5-150 ms
Relay contact type	NO or NC
Relay type	Solid state or mechanical
Internal Relays (Ch 1 & Ch 2)	20V AC/DC, 1A max

TIMING

GPS Receiver	72-channel uBlox 8 series
GMT Time-Zone Offset	+/- 12 hours
Maximum Drift	+/- 36.7ms

CONNECTIONS

USB	USB B Micro 2.0
Red/Black Banana Jacks	Channel 1 Interruption
Multiport	Custom connector, requires adapter for Channel 2, external power and MOBILTEX Smart Relays (SRLs)

Authorized Reseller

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ABOUT MOBILTEX®

At MOBILTEX, technology is just the beginning. We've been leading the industry in cathodic protection monitoring for corrosion prevention on over three hundred thousand of miles of pipelines throughout North America and around the world. That's why pipeline and corrosion engineers across all industries have come to rely on us.

With our innovative engineering, design and manufacturing, we've created dependable IIoT technology that's built smart, built tough, and built to last. Our success comes from thinking like our customers and we always engineer to effectively solve your unique challenges. We're proud to say we've proven our technology in the harshest, most challenging of environments — time and time again.

But it doesn't stop there, every one of our solutions is backed by our industry leading customer service and support team that's ready to take you from product selection, to the initial set-up, through to our ongoing support.

THIS IS MOBILTEX.
WE'RE THERE.



35+ YEARS
OF MONITORING INNOVATION

300K MILES
OF PIPELINE MONITORED

~200
MAJOR ORGANIZATIONS ASSETS PROTECTED

ONEOK · KINDER MORGAN · BHE TRANSMISSION · national gas · Williams · ExxonMobil · bp · ENBRIDGE · MARATHON · Shell · TC Energy



READY TO SPEAK TO ONE OF OUR PRODUCT SPECIALISTS?

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