



**CONSPEC®**  
INNOVATION THAT DIGGS DEEPER.

## XP ATE Trunk Extender

### XP ATE Trunk Extender

Conspec's Trunk Extenders increase the distance Conspec's field devices can go by reshaping the data signal and boosting the power while providing critical battery back-up to ensure your device network continues to operate in the most mission critical applications.

- Ensures reliable communication
- Digital Communications using either MODBUS RTU/TCP or Conspec Accessor Protocols
- Provides Power and Communications for up to 4000' (1220m) over a rugged copper backbone without the need for additional repeaters (Depending on the number of connected devices and your local electrical regulations)
- Converts Local AC Power (110VAC-400VAC) to 12VDC-24VDC Power with over 4 hours battery backup for all your Conspec Devices
- Intrinsically Safe Version converts Local AC Power (110VAC-400VAC) to Intrinsically Safe DC Power (15.8VDC or 18VDC) with over to 4 hours battery backup to continue system operations during a high gas event
- One Year Warranty



### RELIABLE SECURE POWER

Conspec's Trunk Extenders provide secure, regulated, reliable and steady power to all your Conspec Field Devices minimizing the risk of damage due to power surges. Additionally, every Trunk Extender provides Conspec Field Devices with 4 Hour Battery back-up to ensure your network continues operating in the event of a power outage in compliance with MSHA regulations.

### INTRINSICALLY SAFE POWER FOR COAL MINING

Conspec's Intrinsically Safe Trunk Extenders are designed to provide an intrinsically safe power and communications backbone for your Conspec Devices to allow your atmospheric monitoring network to continue operating safely through even the most dangerous high gas events, providing you with critical gas monitoring when you need it the most.

### INCREASED SENSOR DATA THROUGH DIGITAL COMMUNICATIONS

Conspec's copper network backbones uses digital communications in either MODBUS RTU or Conspec Accessor Protocols to relay sensor and device data with Mine Wide SCADA Systems such as the Conspec Senturion. This ensures that signal noise on your mining operation's network backbone is significantly reduced and allows for the retrieval of other important operating parameters such as operating temperature and voltage for improved performance analysis.

### CERTIFIED FOR USE IN COAL MINES

Conspec's Trunk Extenders are internationally certified for use in high methane environments when connected to a certified intrinsically safe power source.

# XP ATE Trunk Extender

# Technical Specifications

## MECHANICAL

### Enclosure

- P1584-XPUS – Killark Copper Free Cast Aluminum Explosion Proof Enclosure
- P1584-XPCA, P5000A – Custom 1/2" Welded Steel Explosion Proof Enclosure

### Dimensions

- P1584-XPUS – 16" x 16" x 8"
- P1584-XPCA, P5000A – Main Box 14" x 15" x 7" + Battery Box 13.5" x 10.5" x 6"

### Weight

- P1584-XPUS – 398lbs
- P1584-XPCA, P5000A – 391lbs

### Conduit Entry

- P1584-XPUS – 3 x String Relief XP Junction Boxes
- P1584-XPCA, P5000A – 6 x Steel String Relief XP Connectors  
(Two for External Battery Connectors)

## ELECTRICAL

### Operating Voltage

- 8-30VDC (15VDC or 18VDC for Intrinsically Safe Operation)

### Cable Requirements

- 4-Conductor 18 AWG Suggested, Conspec P1209 Trunk Cable Recommended

### Cable Connection - Output

- P1584-XPUS – 1 x Conspec Trunk Out
- P1584-XPCA, P5000A – 1 x Conspec Trunk Out, 1 x DC Power Out (for external Battery)

### Inputs

- P1584-XPUS – 1 x Trunk In, AC Power In
- P1584-XPCA – 1 x Trunk In, AC Power In, 1 x Battery Power In
- P5000A – 1 x CAT5 Cable In, AC Power In, 1 x Battery Power In

### Current Consumption

- 2A

### Communication Protocol

- Conspec Accessor (Legacy or CN2), MODBUS RTU

## ENVIRONMENTAL

### Operating Temperature

- 14°F to 120°F (-10°C to 50°C)

### Operating Humidity

- 10% to 95% RH Non-Condensing

## SYSTEM

### Operating Modes

- 2 – Normal, Battery

## OPTIONS

### P1584-XPUS

- Intrinsically Safe Accessor Trunk Extender in Killark Copper Free Aluminum Explosion Proof Enclosure w/ 4-Hour Battery Backup. Provides 500mA of Intrinsically Safe Power

### P1584-XPCA

- Intrinsically Safe Accessor Trunk Extender in Custom 1/2" Welded Steel Explosion Proof Enclosure w/ External 4-Hour Battery Backup in Custom 1/2" Welded Steel Explosion Proof Enclosure. Provides 500mA of Intrinsically Safe Power

### P5000-1

- Intrinsically Safe Multi-Mode Fiber Optic Accessor Trunk Extender in Custom 1/2" Welded Steel Explosion Proof Enclosure w/ External 4 Hour Battery Backup in Custom 1/2" Welded Steel Explosion Proof Enclosure. Provides 500mA of Intrinsically Safe Power

### P5000-2

- Intrinsically Safe Multi-Mode Fiber Optic Accessor Trunk Extender in Custom 1/2" Welded Steel Explosion Proof Enclosure w/ External 4 Hour Battery Backup in Custom 1/2" Welded Steel Explosion Proof Enclosure. Provides 500mA of Intrinsically Safe Power

\*Product image may vary due to global supply chain issues and resources available.