Mini External Preamplifiers for pH, ORP & ISE Sensors

Dimensions:	47mm Width X 23mm Height X 19mm Depth (1.85" X 0.90" X 0.75" Inches)
Weight:	26 grams (0.92 ounces)
Power Consumption:	Less then 1mA @ ±5V
Mating Cable:	Standard CSA / UL Approved Multiconductor, 18 to 24 AWG (PVC or TEFLON Jacketed)
Maximum Cable:	From 50 meters (165 feet) to 150 meters (495 feet) *

Mating Transmitters (Partial List):

- ASTI: 3TX-pH-X & 3TX-ISE-X Models, All 2TX & 4TX pH / ORP Transmitters
- Rosemount: 1055, 1056, 1057, 56, 3081, 4081, 5081, 6081, XMT, 1066, 54epH,… and many more
- Signet: 8710, 8750… and many more
- Contact ASTI factory for specific wiring diagrams and to see if your particular transmitter is supported

Configurations Available:

✓ Bare (No J-Box ** & No Cable) – Ideal for OEM partners that supply their own enclosures & cabling

✓ Installed into waterproof J-Box ** only (No Cable) – For customers that wish to supply their own cabling

✓ Assembly including both waterproof J-Box ** and preinstalled cable complete – Turn-key ready to install

Applications:

✓ Extend cable length of pH, ORP and Ion Selective (ISE) sensors

✓ To ensure quiet, low-noise operation in high noise areas (RF rejection)

✓ Easy sensor replacement by not opening transmitter enclosure (only J-Box with mini external preamplifier is opened)

Special Features:

✓ Operates on a wide range of supply voltage from ±3V (6V Total) to Max ±8V (16V Total)

✓ Creates 3-wire TC output from 2-wire TC input for automatic cable length correction on temperature sensor ***

✓ Can be powered from a pair of 3V or 6V lithium ion batteries wired with a midpoint (common) ****

* Total supported cable length depends upon drive voltage of mating transmitter and wire gauge on cable used.

** ¾" NPT waterproof J-Box assembly is standard (when supplied). Optional Killark explosion proof version available.

*** Only valid when mating with transmitters that support 3-wire TC inputs.

**** For transmitters that do not support external preamplifiers. Inquire to factory for details and options about this approach.

Last Revised January 27, 2013