

# Smart Output™ Kit Instruction for M-Series and L-Series Converter

## Out-of-box installation on new converters with AMI installed

### 1.0 Introduction

This procedure is intended to upgrade M-Series and L-Series converters to SmartOutput capability for use with industry standard AMI (Advanced Metering Infrastructure) systems. See the table at right. The procedure describes the method for installing the circuit board and output cable.

Smart Output™ is an output option to interface with FlexNet networks sold by Sensus® and Itron AMI systems. When this option is included, an additional output cable is pre-installed, which connects to an Advanced Metering Infrastructure transceiver. There is no procedure to follow to set up the AMI interface; simply connect the cable to the AMI transceiver.

For details on remote mount and outputs (4-20mA and/or pulse), please refer to the associated sections in the L-Series or M-Series Converter Manuals. This addendum will not cover those topics.

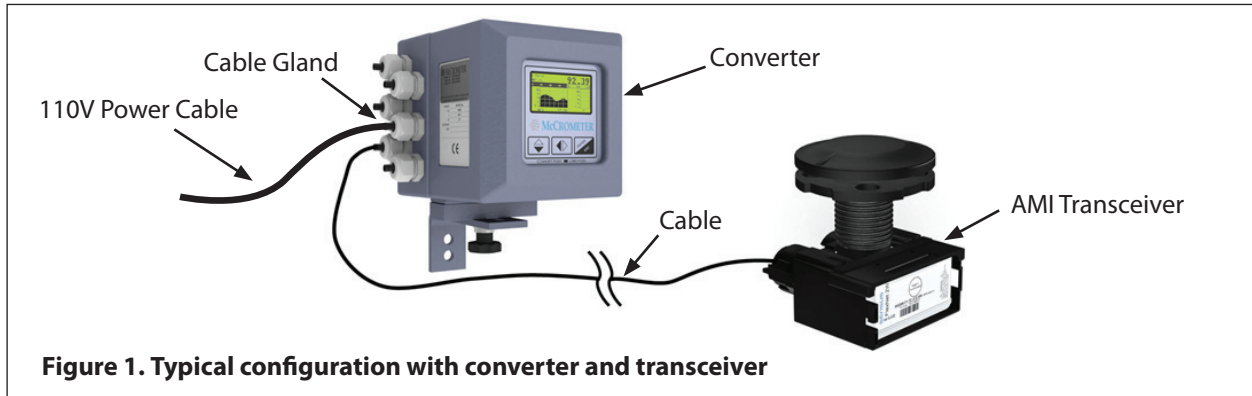


Figure 1. Typical configuration with converter and transceiver

### 2.0 Installation

The convertor comes pre-wired with an interconnection that should readily connect to most AMI transceivers. Where interconnective devices are not mechanically compatible or where non-standard wiring is encountered, the installer can opt to remove the connector from the end of the converter's interface cable and make direct connection via the wiring table given below.

- Signals and associated wire colors in the McCrometer SmartOutput™ interface cable are identified together in the top row of the table at right.
- Corresponding wire colors for transceivers from each compatible AMI vendor are identified in the columns under the top row.

	Purchased with Converter	Standalone Kit
Smart Output™ with Itron Systems (100W models, nine-digit output) (retrofit)	AMR-ITR9	AMR-ITR9-K
Smart Output™ with Itron Systems (All other models, six-digit output) (retrofit)	AMR-ITR6	AMR-ITR6-K
Smart Output™ with Sensus Systems (All three-wire models) (retrofit)	AMR-SEN	AMR-SEN-K

#### McCrometer AMR Interface Pinout

	1 Power/Clock	2 Data	3 Ground
<b>Badger</b>	Red	Green	Black
<b>Elster</b>	Green	Red	Black
<b>Itron</b>	Black	Red	Green
<b>Neptune</b>	Black	Red	Green
<b>Sensus</b>	Red	Green	Black