FMC Technologies

AccuLoad Preset Accessory

P2412 Converter

Installation

Issue/Rev. 0.0 (10/99)

Bulletin MN06117

Introduction

This manual is to be used for the installation of the P2412 Converter designed by Smith to convert the AccuLoad III 24 Vdc power output to a 12 Vdc output. The converter has been designed to provide power to Smith transmitters PEX, PA2, and PA5. These old-style transmitters require 12 Vdc power. The converter will convert the 24 Vdc from the AccuLoad III to power these transmitters.

Specifications

Electrical Input

24 Vdc 10%, 100 mA maximum

Electrical Output

12 Vdc 10%, 150 mA maximum

Installation

The P2412 Converter is supplied with the wires stripped on both ends. Butt-splices are also supplied for those customers who prefer this method of installation. Two methods of installation are shown in the diagrams. Figure 1 shows direct wiring to the EAAI board. Figure 2 shows the red and black wires connected to the EAAI board and the blue and black wires with butt-splices crimped on.

Direct Installation

1. Remove the cover from the sticky back tape and locate the converter as shown on the mounting plate. The red and black twisted pair of wires is pointed toward the bottom of the housing.

2. Connect the red wire to terminal 11 (+24 Vdc) EAAI TB 4.

3. Connect the black wire to terminal 14 (DC GND) EAAI TB 4.

4. Connect the blue wire to terminal 16 (labeled N.C.) EAAI TB 4.

5. Connect the black wire to terminal 15 (DC GND) EAAI TB 4.

6. When wiring the +12 Vdc to the transmitter, insert the +Vdc wire into Terminal 16 and the –Vdc wire into Terminal 15.

7. Installation of the power converter and power to the transmitter is complete.

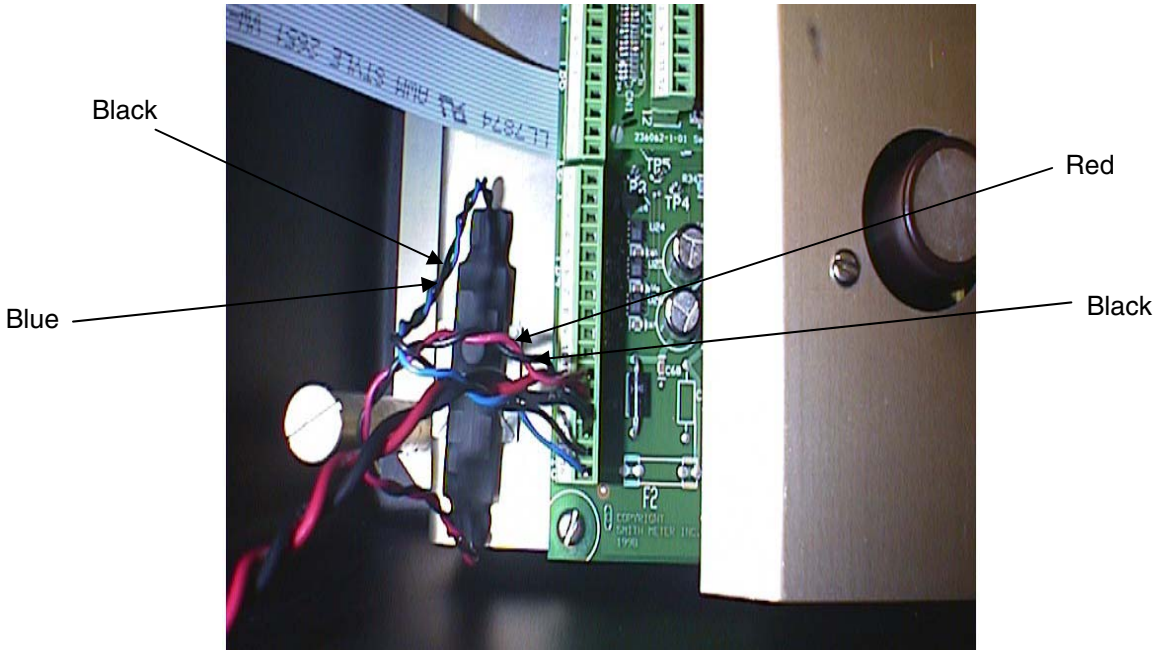

Figure 1

Butt-splice Installation

1. Remove the cover from the sticky back tape and locate the converter as shown on the mounting plate. The red and black twisted pair of wires is pointed toward the bottom of the housing.

2. Connect the red wire to terminal 11 (+24 Vdc) EAAI TB 4.

3. Connect the black wire to terminal 14 (DC GND) EAAI TB 4.

4. Locate the butt-splice connectors from the kit.

5. Crimp the butt-splice connector to the blue wire.

6. Crimp the butt-splice connector to the black wire.

7. Connection the +12 Vdc transmitter wire to the blue wire connector, then connect the ground from the transmitter to the black wire connector.

8. Installation of the power converter and power to the transmitter is complete.

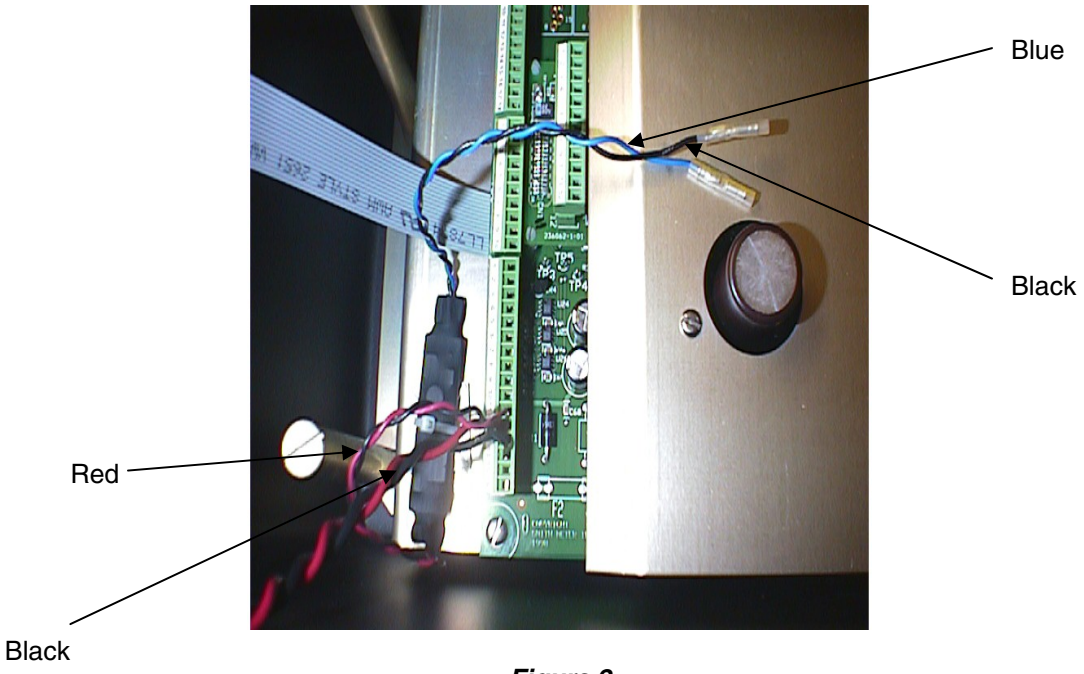

Figure 2

Section III – Related Publications

The following literature can be obtained from FMC Technologies Measurement Solutions, Inc. Literature Fulfillment at johno@gohrs.com or online at *www.fmctechnologies.com/measurementsolutions*. When requesting literature from Literature Fulfillment, please reference the appropriate bulletin number and title.

AccuMate for AccuLoad III

Specifications.....Bulletin SS06032
Installation/Operation.....Bulletin MN06114

AccuLoad III-S

Specifications.....Bulletin SS06030
Installation.....Bulletin MN06108
Operator Reference.....Bulletin MN06110
Modbus Communications.....Bulletin MN06111L
Communications.....Bulletin MN06112L

AccuLoad III-S Upgrade

Specifications.....Bulletin SS06033
Installation.....Bulletin MN06115

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