Model BC Flow Totalizer, Ratemeter and Batch Controller
Wiring Diagrams
# Model BC Flow Totalizer, Ratemeter and Batch Controller Wiring Diagrams

## CONTENTS

### INTRODUCTION

I. FORCENETER™ WITH INTERNAL POWER .......................................................... 3
II. FORCENETER™ WITH EXTERNAL POWER ...................................................... 4
III. NIAGARA METERS® 1050 WITH INTERNAL POWER – PULSE OUTPUT ........ 5
IV. NIAGARA METERS® 1050 WITH INTERNAL POWER – CURRENT OUTPUT ...... 6
V. NIAGARA METERS® 1050 WITH EXTERNAL POWER – CURRENT OUTPUT ...... 7
VI. NIAGARA METERS® 1050 WITH EXTERNAL POWER – PULSE OUTPUT .......... 8
VII. NIAGARA METERS® MAGMETER 6600 WITH INTERNAL POWER
    - ACTIVE FREQUENCY/PULSE OUTPUT .......................................................... 9
VIII. NIAGARA METERS® MAGMETER 6600 WITH INTERNAL POWER
     - CURRENT OUTPUT .................................................................................. 10
IX. NIAGARA METERS® 6600 WITH EXTERNAL POWER
   - PASSIVE FREQUENCY/PULSE OUTPUT ...................................................... 11
X. MTX/WPX 573 WITH EXTERNAL POWER ......................................................... 12
XI. MTX/WPX 840 WITH INTERNAL POWER ......................................................... 12
XII. MTX/WPX 860 WITH INTERNAL POWER ....................................................... 13
XIII. MODEL R11 OR R12 WITH INTERNAL POWER ............................................ 13
XIV. MODEL R15B WITH INTERNAL POWER ....................................................... 14
XV. MODEL R22B WITH INTERNAL POWER ....................................................... 14
XVI. MODEL R22C WITH INTERNAL POWER ..................................................... 15
XVII. MODEL R25 WITH INTERNAL POWER ..................................................... 15
INTRODUCTION

This guide illustrates the proper wiring connections required for the Model BC Flow Totalizer, Ratemeter and Batch Controller to be connected with other Niagara Meters® products. These diagrams should be consulted during installation and for any maintenance. Please consult the associated Installation and Operation Manual (IOM) for additional details and instructions.

Niagara Meters® Customer Support can be reached at (800) 778-9251 for additional inquiries.
I. ForceMeter™ with Internal Power

Integral Transmitter

Remote Transmitter
II. ForceMeter™ with External Power

Integral Transmitter

Remote Transmitter

Transmitter Enclosure

Customer Wiring

Belden 8418 or Equivalent

Meter Enclosure

Pre-wired to Transmitter

Pre-wired to Meter Sensing Element

Customer Wiring

Conduit Entry for Customer Wiring

Conduit Entry for Customer Wiring

Power Supply 12-36 VDC

Power Supply 18-36 VDC

Power Supply

Common

DC Output

Pulse In

1

2

3

4

BC Terminals

BC Terminals

DC Output

Pulse In

1

2

3

4

Common

18-36 VDC

12-36 VDC
III. Niagara Meters® 1050 with Internal Power – Pulse Output

Integral Transmitter

Remote Transmitter

75' of 18 gauge wire

BC Terminals

BC Terminals
IV. Niagara Meters® 1050 with Internal Power – Current Output

**Integral Transmitter**

![Integral Transmitter Diagram]

**Remote Transmitter**

![Remote Transmitter Diagram]
V. Niagara Meters® 1050 with External Power – Current Output

**Integral Transmitter**

![Integral Transmitter Diagram]

**Remote Transmitter**

![Remote Transmitter Diagram]

* RTD Optional

75’ of 18 gauge wire

* RTD Optional
VI. Niagara Meters® 1050 with External Power – Pulse Output

Integral Transmitter

Remote Transmitter

* RTD Optional

75' of 18 gauge wire
VII. Niagara Meters® 6600 with Internal Power – Active Frequency/Pulse

**Integral Transmitter**

**Remote Transmitter**

---

**BC Terminal, Ratemeter & Batch Controller Wiring Diagrams**

---

**9**
VIII. Niagara Meters® 6600 with Internal Power – Current Output

Integral Transmitter

Remote Transmitter
IX. Niagara Meters® 6600 with External Power – Passive Frequency/Pulse

Integral Transmitter

Remote Transmitter
X. MTX/WPX 573 with External Power

Integral Transmitter

XII. MTX/WPX 840 with Internal Power (Integral Transmitter)

Integral Transmitter
XII. MTX/WPX 860 with Internal Power

Integral Transmitter

XIII. R11 or R12 with Internal Power

Integral Transmitter
XIV. R15B with Internal Power

Integral Transmitter

XV. R22B with Internal Power

Integral Transmitter
XVI. R22C with Internal Power

Integral Transmitter

Square Wave

Black
White
Red

1 2 3 4
Pulse In
12 VDC Output
Common

XVII. R25 with Internal Power

Integral Transmitter