Model FC Mass Flow Computer
Wiring Diagrams
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INTRODUCTION
This guide illustrates the proper wiring connections required for the Model FC Mass Flow Computer 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

Transmitter Enclosure

Customer Wiring
Belden 8418 or Equivalent

Customer Wiring

Meter Enclosure
Pre-wired to Meter Sensing Element

Pre-wired to Transmitter

4-20mA Output

24 VDC Output

1 2 3 4

1 2 3 4

Common

Pulse In

Common

24 VDC Output

FC Terminals

FC Terminals
II. ForceMeter™ with External Power

Integral Transmitter

Remote Transmitter

Pre-wired to Meter Sensing Element

Belden 8418 or Equivalent

Pre-wired to Transmitter

12-36 VDC Power Supply

18-36 VDC Power Supply

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

Integral Transmitter

Remote Transmitter

75’ of 18 gauge wire

* RTD Optional
IV. Niagara Meters® 1050 with Internal Power – Current Output

Integral Transmitter

Remote Transmitter

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

Integral Transmitter

Remote Transmitter

75’ of 18 gauge wire

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

Integral Transmitter

Remote Transmitter

MARK V

(A) + E
(B) + S
(C) − S
(D) − E

RTD

75’ of 18 gauge wire

* RTD Optional
VII. Niagara Meters® 6600 with Internal Power – Active Frequency/Pulse

**Integral Transmitter**

- **Active Frequency**
- **Pulse**

**Remote Transmitter**

- **Active Frequency**
- **Pulse**

**FC Terminals**

- T 1A, 250V Fuse
- 500 Ω
- 24 DC Output
- 24 DC In
- Common
- Pulse In(+)
- I In
- J1, J2

**FC Flow Computer Wiring Diagrams**
VIII. Niagara Meters® 6600 with Internal Power – Current Output

Integral Transmitter

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

Integral Transmitter

Remote Transmitter

250 Ω

Power Supply
12-36 VDC

DC Output
Pulse In
Pulse In (+)
Common
BC Terminals