

Siemens Industry, Inc.
Spring House PA, USA

SITRANS F

V/M: E4

MODEL: FUP1010
Item NO: 1010WPTRH-T1DXGZ
PART NO: 7ME35101CA000AA0



S/N: 42775



IP67



LISTED
3KVT E304857

INSPECTION & MEASURING
ELECTRICAL EQUIPMENT
ASSEMBLED IN USA



EXTERNAL POWER INPUT:
VOLTAGE: 12 to 18.5 VDC (OPERATION)
VOLTAGE: 15 to 18.5 VDC (CHARGING)
CURRENT: 3.0 AMPS MAX
CONNECT TO APPROVED DEVICES ONLY:
USE POWER ADAPTER P/N 7ME3940-3P*00

WARNING: INTERNAL BATTERY PACK
P/N 7ME3940-3PP00 CONTAINS NIMH BATTERIES,
DISPOSE OF PROPERLY. DO NOT PUT IN FIRE
OR PUNCTURE. MAY RELEASE TOXIC
MATERIALS. DO NOT SHORT CIRCUIT, MAY
CAUSE BURNS.



A6X30071805 rev 02

01/23/2014

Introduction

1.1 Introduction

Introduction

This Quick Start is for the Siemens FUP1010 Weatherproof IP67 Portable flow meters. It includes procedures to form and charge the battery pack and use the AC Power Adapter. It also illustrates a typical set using D-Series transducers in the Reflect operating mode (for Direct mode see Operation Instructions manual). These procedures can also be applied to single and multi-channel models as well.

To use the Siemens Si-Ware program to assist in flow meter installation download the program at [<http://s13.me/ns/cv>].

Note

Important Safety Note: For complete Important Safety considerations and Ratings, refer to the Operation Instructions manual included with the unit.

Note

This Quick Start Guide applies to the following FUP1010 IP67 (weather proof) operating systems: Version 3.02.02 and later and version 4.03.00 and later.

1.2 Items supplied

- SITRANS FUS1010 IP65 NEMA 4X & IP66 NEMA 7 Transmitter
- SITRANS F Literature CD
- Quick Start Guide

Note

For additional items refer to your packing slip.

2.3 Connecting AC Power Adapter/Charger

Connecting the 1015BCK-1 (7ME39404PG00) Power Adapter/Charger

1. Connect the AC power cord to the AC cord input of the Power Adapter/Charger.
2. Plug the Power Adapter/Charger connector into the rear panel Auxiliary Power/Battery Charger input connector.
3. Plug the Power Adapter/Charger AC plug into an AC power outlet.

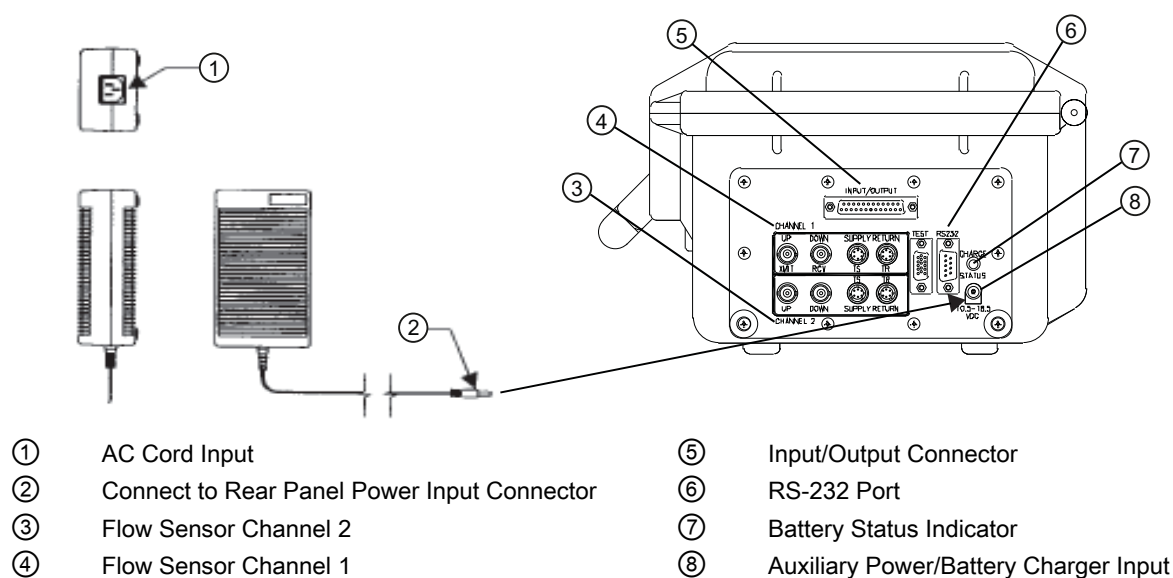


Figure 2-2 Power Adapter/AC-Charger for Dual Channel Flow Meter

Appendix

A.1 I/O Connections and Wiring

Terminal Block Wiring - FUP1010 IP67 Battery Powered 2 Channel/2 Path Weatherproof Flow Meter Wiring

(Refer to manual drawing 1010WDP-7 sheet 2 of 2)

Note

Single Channel flow meters have the same terminal pin numbers and signals.

The terminal block wiring table applies to the part numbers listed below.

Table A- 1 Part Numbers and Connection Data

1010WDP-7 (Sheet 2 of 2) Drawing	
FUP1010	7ME3510

Appendix

A.1 I/O Connections and Wiring

Table A- 2 2 Channel/2 Path Input/Output Terminal Block Wiring

Pin#	Signal	Function	Description
A	GND	Signal Ground	Return For Signals
B	N/C	N/C	No Connection
C	R1B	Logic Out 1	Logic Level State (HIGH=5 to 3 VDC; LOW= 1 to 0 VDC)
D	N/C	N/C	No Connection
E	R2B	Logic Out 2	Logic Level State (HIGH=5 to 3 VDC; LOW= 1 to 0 VDC)
F	N/C	N/C	No Connection
G	R3B	Logic Out 3	Logic Level State (HIGH=5 to 3 VDC; LOW= 1 to 0 VDC)
H	N/C	N/C	No Connection
J	R4B	Logic Out 4	Logic Level State (HIGH=5 to 3 VDC; LOW= 1 to 0 VDC)
K	PGEN1	Frequency Output 1	Assignable Logic Level Pulse Train (5V TTL CMOS Logic)
L	PGEN2	Frequency Output 2	Assignable Logic Level Pulse Train (5V TTL CMOS Logic)
M	Vo1	Voltage Output 1	Assignable (0 to 10 VDC) [Min. load=5k ohms]
N	Vo2	Voltage Output 2	Assignable (0 to 10 VDC) [Min. load=5k ohms]
P	Io1	Current Output 1	Assignable 4 to 20mA output 4-20mA outputs also provide a fault indication by dropping to 2mA if assigned to flow rate and under fault conditions.
R	Io2	Current Output 2	Assignable 4 to 20mA output 4-20mA outputs also provide a fault indication by dropping to 2mA if assigned to flow rate and under fault conditions.
S	Io PWR	External Current Loop	User supplied 18 to 30 VDC @ 25mA min.
T	GND	Signal Ground	Return For Signals
U	CNTRL1	Logic In 1	TTL Level State [HIGH=5 to 3 VDC; LOW=1 to 0 VDC]
V	CNTRL2	Logic In 2	TTL Level State [HIGH=5 to 3 VDC; LOW=1 to 0 VDC]
W	CNTRL3	Logic In 3	TTL Level State [HIGH=5 to 3 VDC; LOW=1 to 0 VDC]
X	CNTRL4	Logic In 4	TTL Level State [HIGH=5 to 3 VDC; LOW=1 to 0 VDC]
Y	Iin1	Current Input 1	External sensor input (4-20mA) [Load = 250 ohms]
Z	Iin2	Current Input 2	External sensor input (4-20mA) [Load = 250 ohms]
a	Vin1	Voltage Input 1	External sensor input (0 to 10 VDC) [Load = 100k ohms]
b	Vin2	Voltage Input 2	External sensor input (0 to 10 VDC) [Load = 100k ohms]
c	GND	Signal Ground	Return For Signals

Temperature Range	Degree of Protection
Operating: -18°C to 60°C (0°F to 140°F) Storage: -20°C to 60°C (-4°F to 140°F)	IP67 (weather proof)

Performance

The following specifications apply under standard conditions (i.e., measurements taken on a straight run of 15 diameters upstream and 5 diameters downstream; flow rate above 1 fps; non-aerated Newtonian liquids flowing at Reynolds numbers <2000 or >10000).

Table A- 3 Performance Specifications

Transit-Time Accuracy	At least 1% to 2 % of indicated flow (better than 0.5 % possible with calibration.)
Flow Sensitivity	0.0003 m/s (0.001 fps) - even at zero flow.
Zero Drift Stability	Less than 0.005 m/s (0.015 fps)
Repeatability (small volume)	Better than 0.5 %
Response Rate (Damping)	SmartSlew effective from 0.2 seconds to 5 minutes.
Flow Velocity Range	Min. ± 12 m/s (± 40 ft/s), inc. zero flow
Linearity	0.0001 m/s (0.003 ft/s)
Flow Profile Compensation	Automatic Reynolds number correction of reported flow rate.