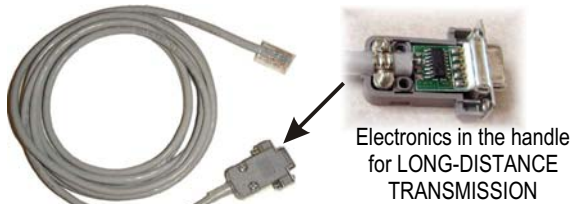
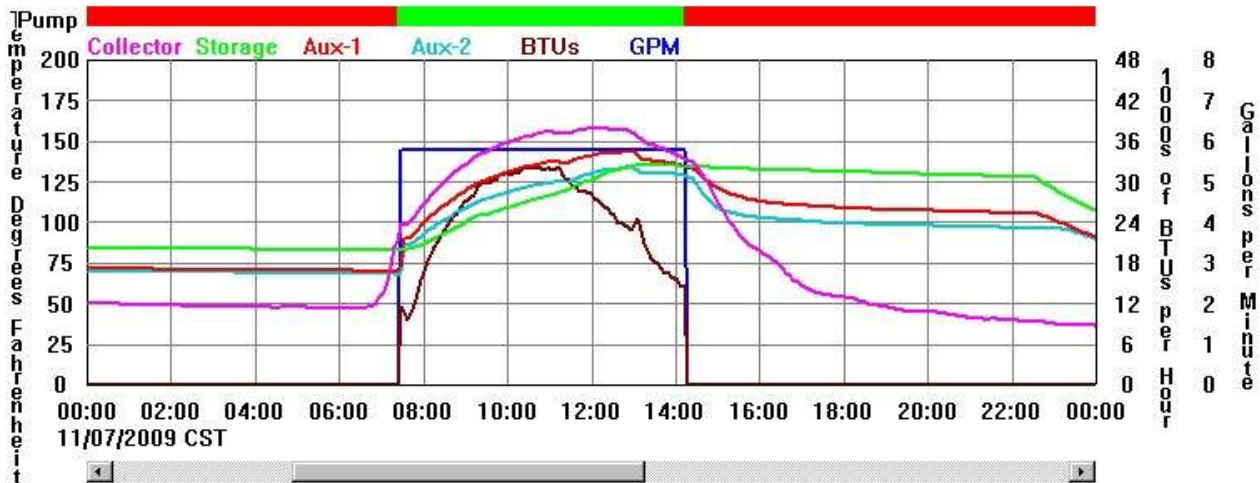


SOLAR "BTU" CHARTING/LOGGING SOFTWARE 14 DAY FREE TRIAL

Download available from
www.solar.imcinstruments.com

15:01:15 ET=64:34:43 Communication Port Not Active
 Last Data Received:
 High Limit 0.0 Differential 0.0
 Pump is OFF On_Hours=19.36 Duty_Cycle= 0.30 Cycles=4
 Samples=23226 Samples saved=801 Samples Logged=0 Open_Sensors=0 Data_Errors=0

Quantity	Current	Maximum	Minimum	Day Max	Day Min
Collector	60.2	158.8	34.2	154.3	34.2
Storage	114.8	135.8	83.5	130.5	84.5
Aux-1	96.1	143.6	70.5	137.0	71.3
Aux-2	87.3	134.7	68.7	129.2	70.2
BTUs Captured	462274.1			157217.4	
KWHs Captured	135.4			46.1	
BTU/hour	0.0	32650.1		32280.3	



PC Data Port Adapter RS-232*: SOLR-DA10
 Connects directly to the EAGLE controller DATA PORT and permits serial PC communication at



EAGLE 2 THERMAL ENERGY METER w/ DIFFERENTIAL CONTROLLER

EAGLE 2 WEB DIFFERENTIAL CONTROLLER

EAGLE "web" controller with a 2500 volt isolated PORT is recommended for long-term or permanent PC monitored installations.



HARD WIRED AND LINE CORDED MODELS AVAILABLE

EAGLE-2 "web" has built-in ISOLATED PORT that can connect to a computer's RS-232 serial port using adapter # SOLR-DA10 for long-term data collection. TEMPERATURES, PUMP ACTIVITY and TOTALIZED BTU are transmitted in "real-time". A TREND GRAPH including calculated BTUs or Kwatts that are displayed in HOURS for remote or later viewing.

Website: www.solar.imcinstruments.com
 468 Liberty Drive, Wittenberg, WI 54499
 Sales: 715-253-2801 & Tech: 715-445-4946
 Fax: 715 253 2811; E-mail: sales@imcinstruments.com



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9-27-2009

EAGLE 2 CONNECTION TO A PC



DB 9 CONNECTOR



CAT-5 NETWORK CABLE WITH RJ45 PLUGS
EXTENSION 500' MAX
- IF REQUIRED -

CABLE EXTENDER UNION



DATA PORT ADAPTER
with 7' cable and RJ45 PLUG

The data that is sent out by All Eagle Differential controllers including the IMC ENERGY METERS is ASCII text as follows:

*Please note that the non Energy meters omit the second line
italics are for reference only*

header

RUNTIME COLL-T STOR-T DIFF-T HILI-T AUX-1 AUX-2 PUMP UPLim FAULT

LINE1

time anag1 anag2 anag3 anag4 anag5 anag6

0:02 162.4 148.3 12.1 186.8 152.4 102.7 ON OFF

LINE2

anag7 na anag8 ana9

GPM=34.58 FPL=1712 AX3=000 KWH=0000003.2

=====

actual sample serial output

every 2 sec or 6 min selectable

RUNTIME COLL-T STOR-T DIFF-T HILI-T AUX-1 AUX-2 PUMP UPLim FAULT

0:01 162.4 147.8 12.1 186.9 152.4 102.7 ON OFF

GPM=34.58 FPL=1712 AX3=000 KWH=0000003.2

0:02 162.4 148.3 12.1 186.8 152.4 102.7 ON OFF

GPM=34.58 FPL=1712 AX3=000 KWH=0000003.2

0:02 162.4 147.8 12.1 186.8 152.4 102.7 ON OFF

GPM=34.58 FPL=1712 AX3=000 KWH=0000003.2

0:02 162.4 148.3 12.1 186.8 152.4 102.7 ON OFF

GPM=34.58 FPL=1712 AX3=000 KWH=0000003.2

0:02 162.4 148.3 12.1 186.9 152.4 102.7 ON OFF

GPM=34.58 FPL=1712 AX3=000 KWH=0000003.2

EAGLE 2 plug and play FLOW METERS for THERMAL ENERGY METERS w/ DIFFERENTIAL CONTROLLERS

2" FLOW METER



MODEL FLPM-0200 FLOW METER

1" FLOW METER



MODEL FLPM-0100 FLOW METER

ACCESSORIES



Bolt-on style: SOLR-TS02



Screw-in style: SOLR-TS03
1/2-NPT threaded plug



Immersion style: SOLR-TS04, 05
4" or 8" long with 1/4 or 1/2-NPT fitting

THERMISTOR TEMPERATURE SENSORS RATED TO 400°F:

IMPORTANT NOTES

Please visit www.imcinstruments.com for a complete listing of individual BROCHURES in PDF form for all of our products. In addition, there are installation notes and various technical aids to assist the installer in completing SOLAR INSTALLATIONS SUCCESSFULLY.

COMING SOON..... Dual Relay TWO ZONE controllers for applications such as DIFFERENTIAL and HEAT DUMP CYCLES for pressurized and evacuated tube collectors, DIFFERENTIAL and SPACE HEATING combined cycles with independent storage, and much more.

ALSO SWIMMING POOL SOLAR Controls for INDOOR and OUTDOOR swimming pool applications. Both systems will include REMOTE SET POINTS and SYSTEM STATUS DISPLAYS.

**IF YOU WOULD LIKE TO BE IN OUR MAILING LIST, PLEASE SEND A BRIEF EMAIL TO:
sales@imcinstruments.com**

WITH YOUR REQUEST, WE WILL EMAIL UPDATES AS SOON AS THEY BECOME AVAILABLE.

MANUFACTURES AN OUTSTANDING LINE OF DIFFERENTIAL & SETPOINT CONTROLLERS FOR THE SOLAR INDUSTRY

EAGLE 2- CONTROLLERS FOR HOT WATER AND WARM AIR APPLICATIONS



SOLR-RD84

LCD MASTER DIGITAL DISPLAY PANEL:

Displays temperature and status indication with 80 characters (4x20) 1/4" high.



PR# SOLR-2ELC-10



THERMOSTAT



PR# SOLR-2EAC-10

MAIN FEATURES

- **Microprocessor** accuracy and dependability with ambient operation from -10 to 120°F
- **Large easy-to-read 40 character** (20x2) backlit LCD display showing every parameter measured and controlled by the microprocessor.
- **DATA port** with transmitter that allows optional adapter to interface with computers using up to 500 feet of cable, for easy startup and remote diagnostics. Or, for adding an **Optional large 80 character** (4x20) backlit LCD display. Remote-mount up to 150 feet away with a CAT-5 cable.
- **Long-term diagnostics** and data logging is possible with communications software that is included in Windows' OS or with our optional charting software.
- **Fault LED indicators** for quick servicing and diagnostics
- **Easy** access to wiring compartment for quick installation.
- **Electrostatic** discharge protected
- **One HP or 20 AMP** high reliability relay
- **Polyester coated 16 gage** rugged steel enclosure
- **Model available** with receptacle & power cord or with 1/2" conduit holes for permanent wiring rated for highest current.

COL=134.1 HSE=80.4
DIF=20.0 CLL=90.0

COL=134.1 HSE=80.4
PKH=87.2 PKL=62.5

COL=134.1 HSE=80.4
FAN=OFF SLL=OFF

COL=134.1 HSE=80.4
TST=80.0 AX1=28.5

COL=COLLECTOR TEMP
HSE=HOUSE TEMP
DIF=DIFFERENTIAL TEMP
CLL=COLLECTOR LOW LIMIT TEMP
PKH=PEAK HIGH TEMP
PKL=PEAK LOW TEMP
SLL=SYSTEM LOW LIMIT OFF/ON
TST=THERMOSTAT TEMP
AX1=AUX SENSOR TEMP

EAGLE 2- DC POWERED DIFFERENTIAL CONTROLLERS FOR HOT WATER APPLICATIONS



EAGLE 2- D1 & 2 are DC OPERATED CONTROLLERS available for "12VDC" BATTERY operation or from direct "PV" PANELS. RELAY OPTIONS are from 6 AMPS to 30 AMPS. Power consumption is 1.5 watts for model D1 and 25 milli-watts for model D2

PR# SOLR-2EDW-D1



PR# SOLR-2EDW-D2