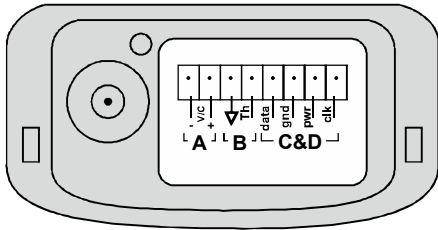


# Eltek TU1041 - GD43JA used with NRLite

The GD43JA provides 3 physical inputs:

- ✂ A bi-polar voltage input for use with the Kipp and Zonen NRLite Net radiometer.
- ✂ A thermistor temperature input
- ✂ A digital input for use with the EE08 RH and temp probe (2 channels)

## Connections



**Channel A:** Range -15mV to +15mV with scaling.

Use with Kipp and Zonen NRLite Net radiometer.

NRLite provides a summed output from the two sensors used.

NRLite connections: Connect red wire to “+”

Connect black(screen) and blue wires to “-”

**Channel B:** Thermistor temperature input with range -50 to +150 degree C.

**Channels C, D:** These channels are the digital signal and power for the EE08 RH and temperature probe:

**Channel C** is presented to the logger as the temperature sensor of the EE08.

**Channel D** is presented to the logger as the RH sensor of the EE08.

## Setting the EU range for NRLite in Darca’s Transmitter Setup

Channel A transmitter input range is +/-15mV.

Look up the calibrated output value of  $\mu\text{V}/\text{W}/\text{m}^2$  provided with the NRLite.

Use the formulae:  $15\text{mV} / \text{NRLite value of } \mu\text{V}/\text{W}/\text{m}^2$  to calculate the full range value.

Example: if the NRLite calibration value is  $11.2 \mu\text{V}/\text{W}/\text{m}^2$ ,  
the range equates to +/-  $1339\text{W}/\text{m}^2$ .

In **EU Range selector : Channel A** (Do not use Helper!)

Set **maximum** to 1339

Set **minimum** to 1339 and then (and only then) insert the - sign

Set **units** to  $\text{W}/\text{m}^2$

Set **decimal point** to 0

Click **OK**

Now change the **Range** drop down for channel A from **+/-15mV** to **EU** range and click **Set Channel**.

Note: When renewing batteries (and especially if transmitter is no longer operating), you should allow one minute with no batteries connected before installing new batteries. This is to ensure transmitter performs a power on reset.