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» **Product: SMT100**

» **Interface: SDI-12**

## » Application Note AN001

**Interfacing the SMT100 SDI-12 with Campbell Scientific data loggers**

english

**Introduction**

This application note describes how to use the SMT100 SDI-12 together with Campbell Scientific dataloggers.

**Requirements**

- SMT100 SDI-12 version

- Campbell Scientific datalogger (e.g. CR1000)

- Campbell Scientific configuration software

**Step 1**

Connect SMT100 to CR1000

Brown:      12 V

White:      G (GND)

Green:      C7 (SDI-12 data)



Figure 1: Campbell Scientifiic datalogger CR1000

**Step 2**

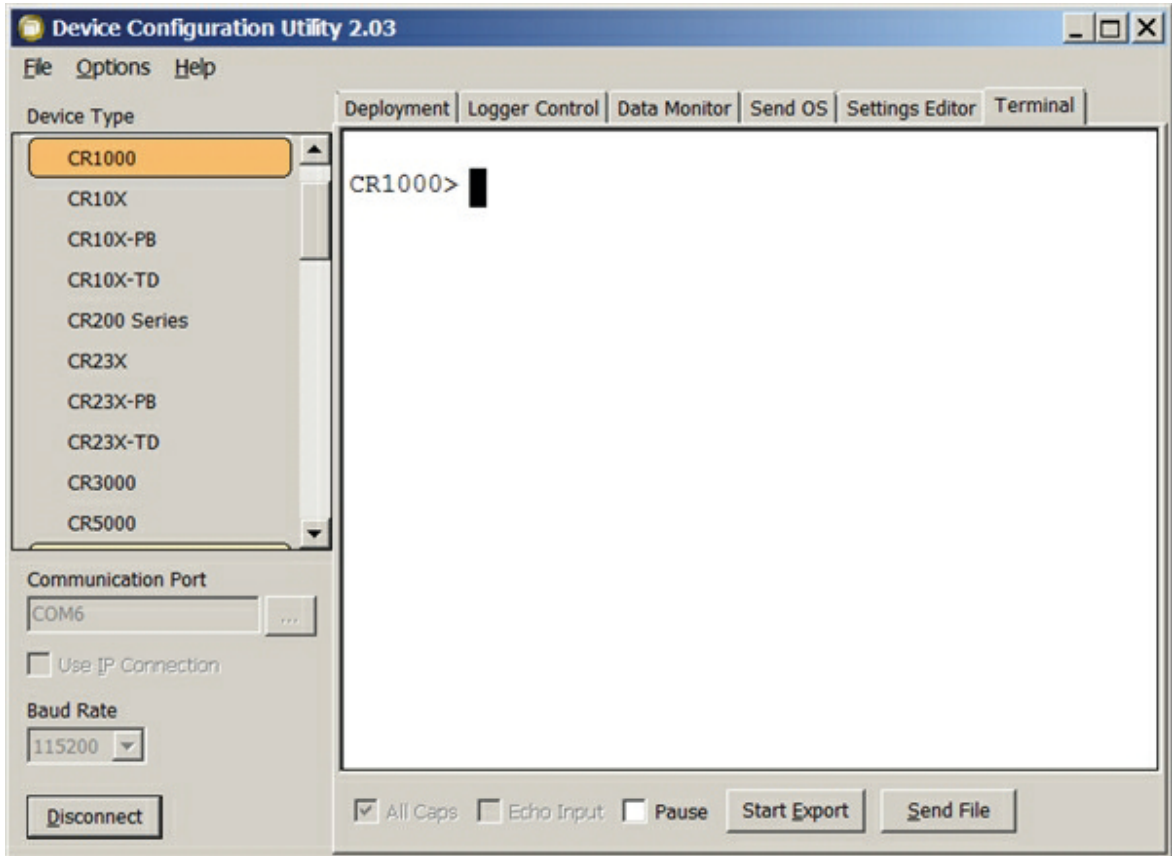Start „Device Configuration Utility (Terminal)".



Figure 2: Device Configuration Utility
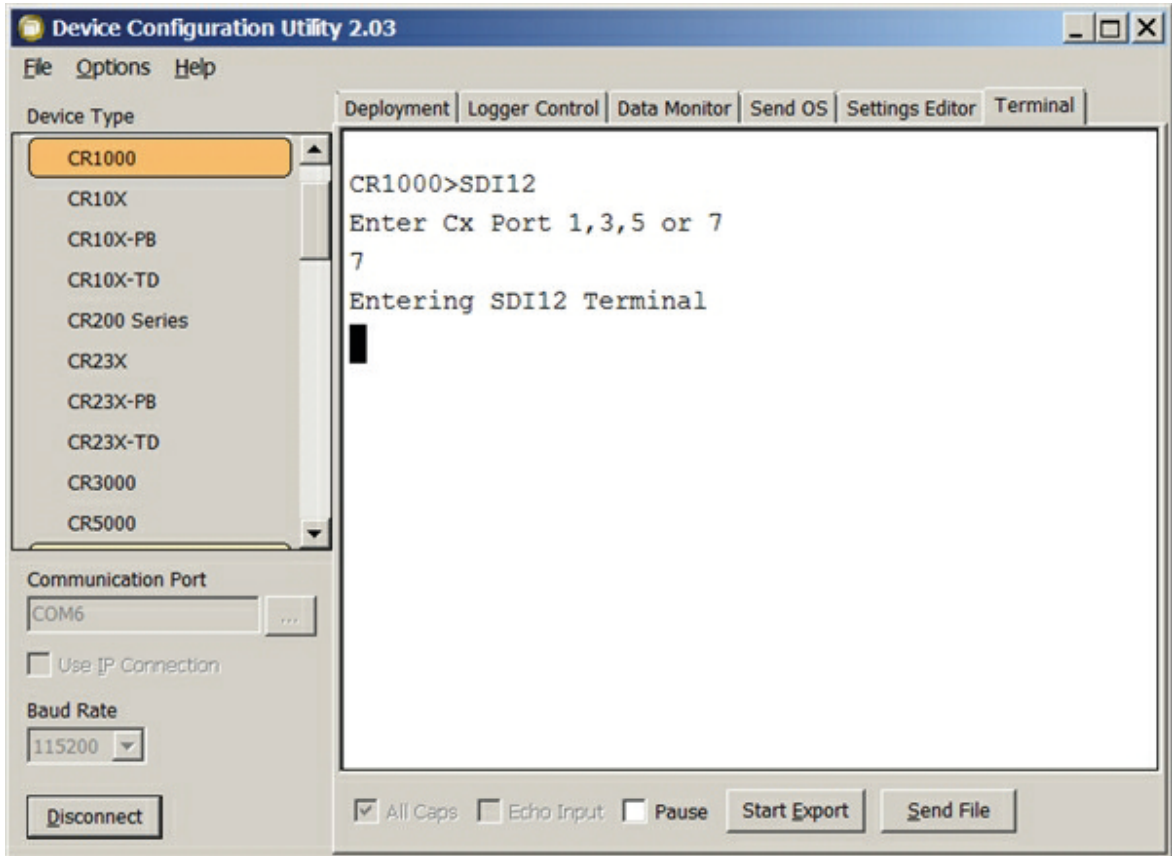
**Step 3**

Enter SDI12 and Port 7



Figure 3: Choose SDI12 and Port

**Step 4**

Enter 1M!

- Sensor is preconfigured with address 1.

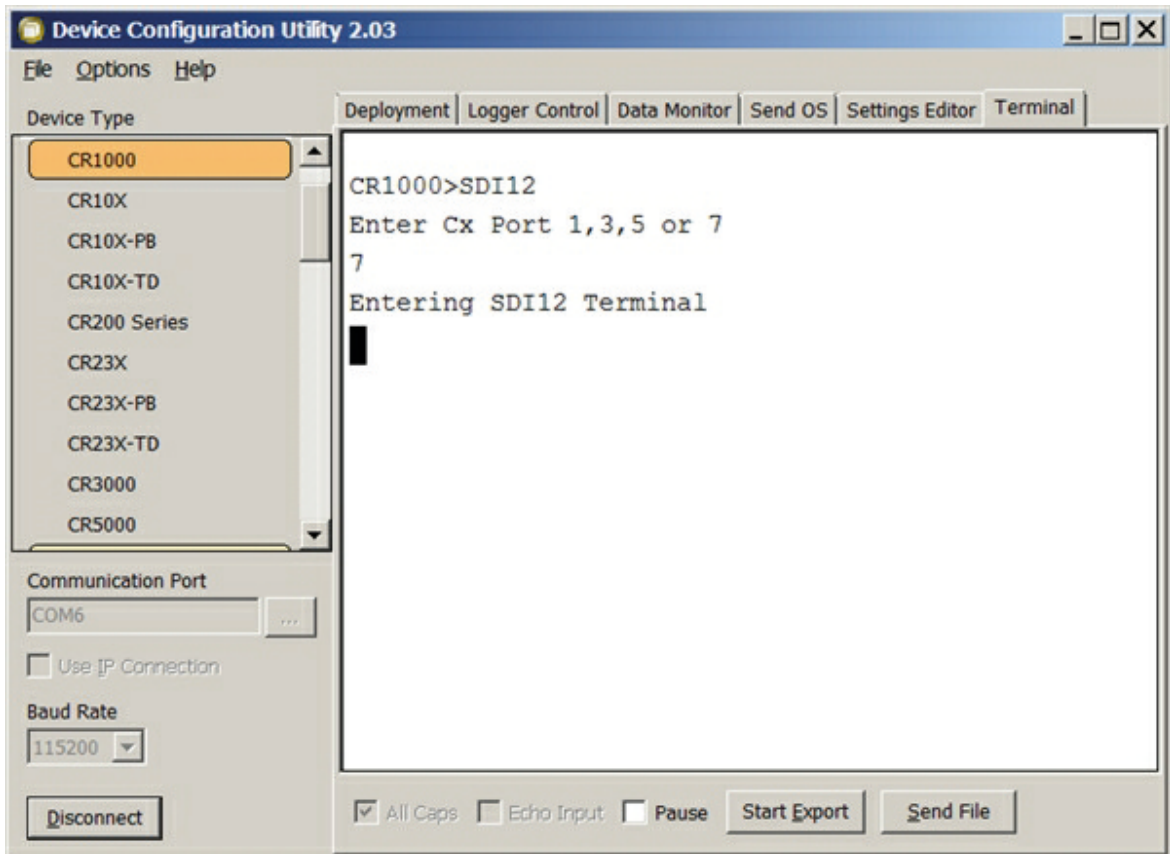- This command executes the measurement.



Figure 4: Choose SDI12 and Port

**Step 5**

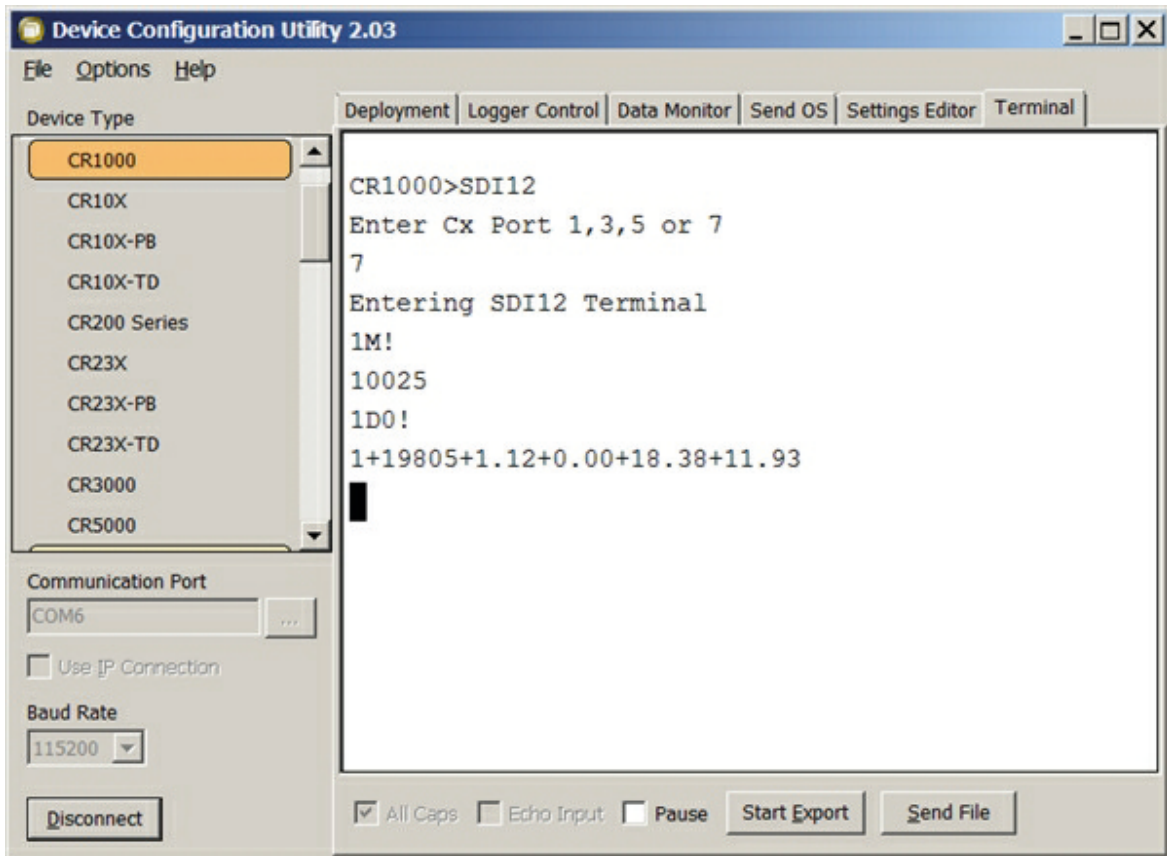Wait at least 2 s and then enter 1D0! for reading the measurement data.



Figure 5: Read measurement data

Description of the information returned:

1:          sensor address

19805:     raw data

1.12:      permittivity

0.00:      water content

18.38:     temperature

11.93:     battery voltage