

Pi Cubes Universal Inputs Module provides easy way to add inputs to you modular Pi Cubes system.

It provides all possible input variations to accommodate different type of the temperature sensors and transducers, pressure/humidity transducers, pulse output meters and dry contact digital inputs.

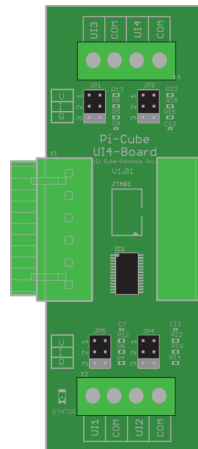
There is possible to connect up to six I/O modules in any possible combinations.

## Features

Pi Cubes Universal Input Module is providing four universal inputs.

Main features are :

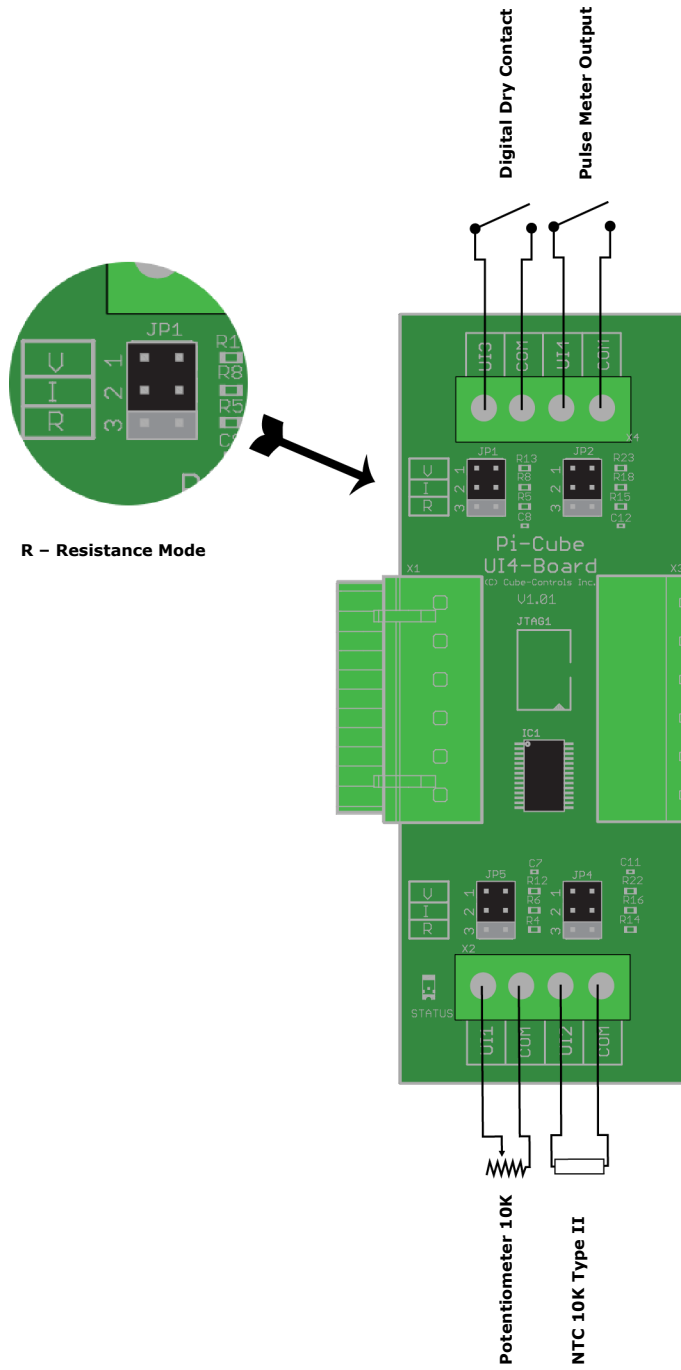
- Four Universal inputs , selectable for 0-10V Analog ,0-20mA Analog and Resistance mode.
- Resistance mode is 0-350K compatible and supports 10K Type 2 NTC sensors.
- Digital Input in resistance mode.
- Pulse Counter Input (Max 20 Hz) in resistance mode.
- Module Status LED, Flashing on power up and solid when module communication is established.



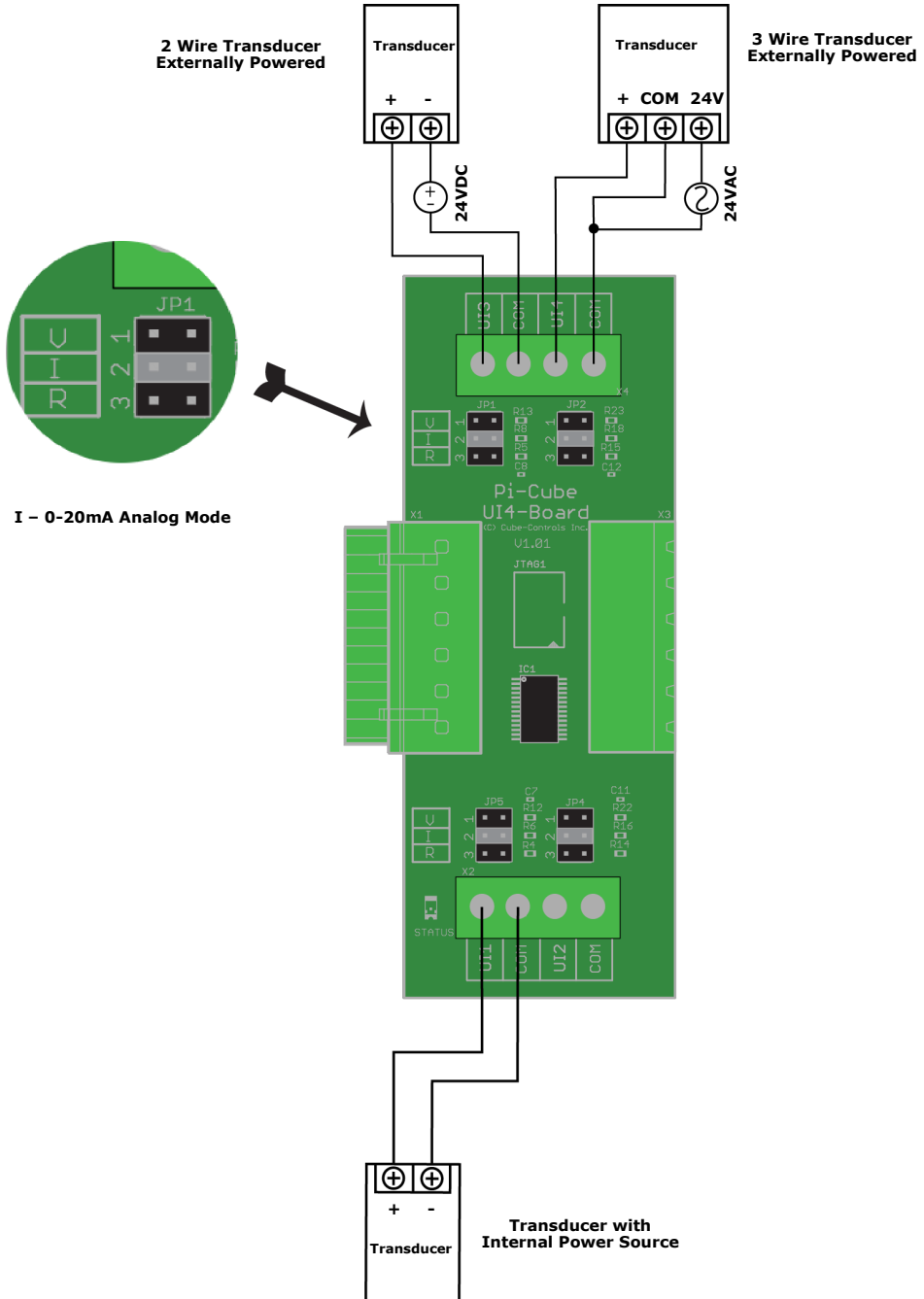
## Technical Specifications

|                                    |  |
|------------------------------------|--|
| <b>Power consumption:</b>          | 20mA on 5VDC Power                                       |
| <b>A/D Convertor:</b>              | 11 bit A/D Convertor                                     |
| <b>MCU :</b>                       | Cypress PSoC4 CY8C4125                                   |
| <b>Resistance Range Support:</b>   | 0-350K Resistance Range                                  |
| <b>Temperature Sensor Support:</b> | 10K Type 2 NTC Sensor Support                            |
| <b>Digital Input Support:</b>      | Digital Input and 20Hz Pulse Counter in Resistance mode. |
| <b>Dimension:</b>                  | W 38mm (1.5") x H 101 mm (4") x D 25mm (1")              |
| <b>Mounting:</b>                   | Modified Tyco PVC PCB Track                              |
| <b>Operating Parameters:</b>       | 0°C(32°F) to 50°C (122°F) : 0-90% RH Non Condensing      |
| <b>CC Part Number:</b>             | CC-PI-CUBES-UI4  |

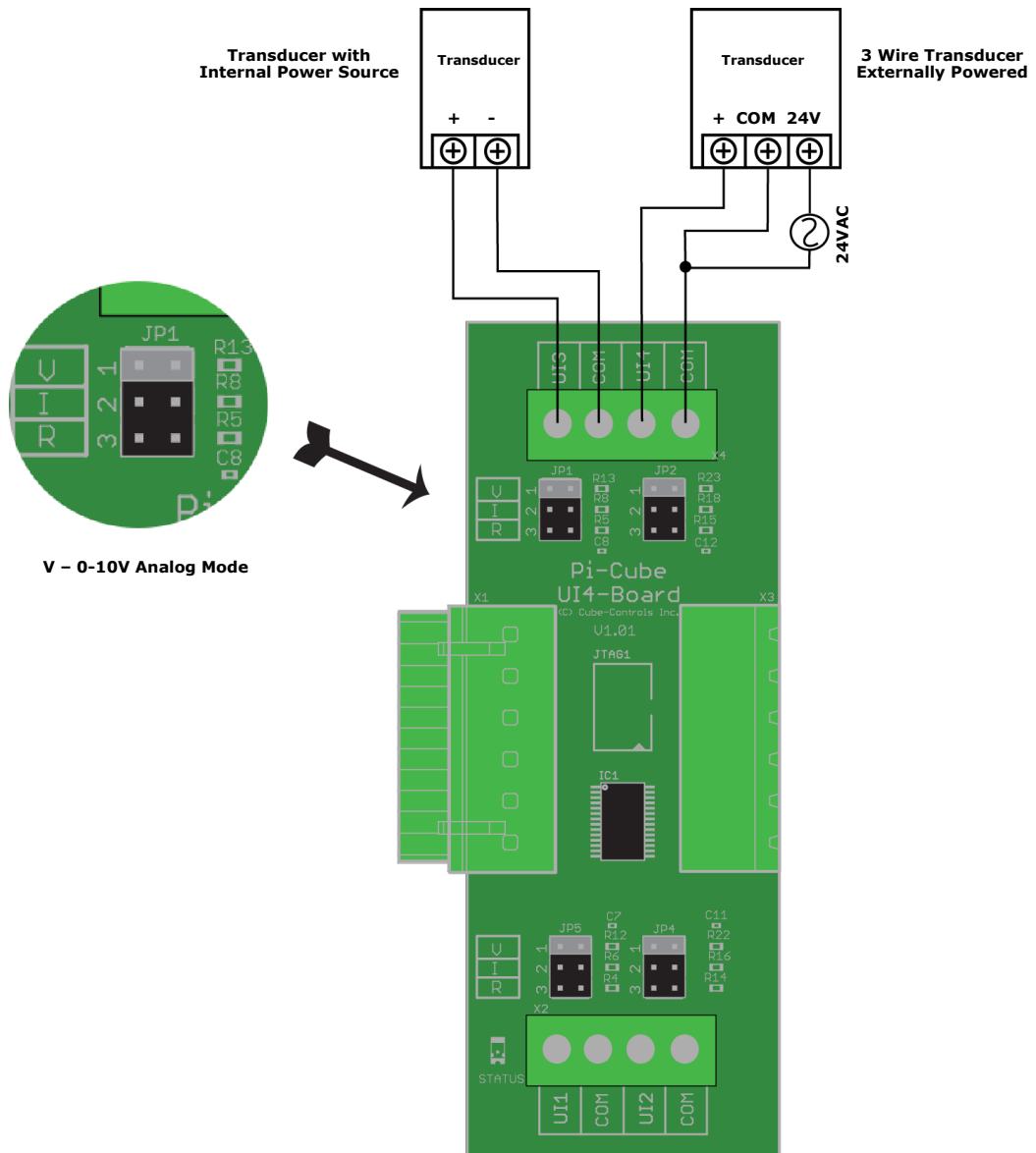
Connections and Wiring in Resistance Mode



Connections and Wiring in 0-20mA Analog Mode



Connections and Wiring in 0-10V Analog Mode





## **Pi-Cubes Installation Terms & Conditions**

**Pi-Cubes is FCC 15/ICES-003 Class A product. In a domestic environment this product may cause radio interference, in which case the user may be required to take adequate measures:**

- **Use all grounded shield cables.**
- **Install Pi-Cubes Main Board in to grounded control panel.**
- **Use adequate Ferrites on the cables if needed.**

**Pi-Cubes will be subassemblies of your final product and you have full and exclusive responsibility to assure safety and compliance of your product based on the Pi-Cubes with all Federal, State and local regulatory requirements and other applicable regulatory requirements.**

### **NO LIABILITY**

**TO THE MAXIMUM EXTENT PERMITTED UNDER APPLICABLE LAW, CUBE-CONTROLS INC., SHALL NOT BE LIABLE TO YOU, OR ANY THIRD PARTY, FOR ANY INDIRECT, EXEMPLARY, SPECIAL, CONSEQUENTIAL OR INCIDENTAL DAMAGES OF ANY KIND ARISING IN ANY WAY OUT OF USE OF THE PRODUCTS, INCLUDING, WITHOUT LIMITATION, LOSS OF PROFITS, REVENUES OR DATA, OR COSTS OF REPLACEMENT GOODS, EVEN IF CUBE-CONTROLS INC. HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES AND NOTWITHSTANDING THE FAILURE OF ANY LIMITED REMEDY OF ITS ESSENTIAL PURPOSE.**

### **Limited Product Warranty**

**We warrant Cube-Controls Products will be free from manufacturing defects for a period of thirty (30) days following the date of delivery to you. We will replace, repair or credit you for any confirmed defective product at our option. Please contact [info@cube-controls.com](mailto:info@cube-controls.com) with any issues.**