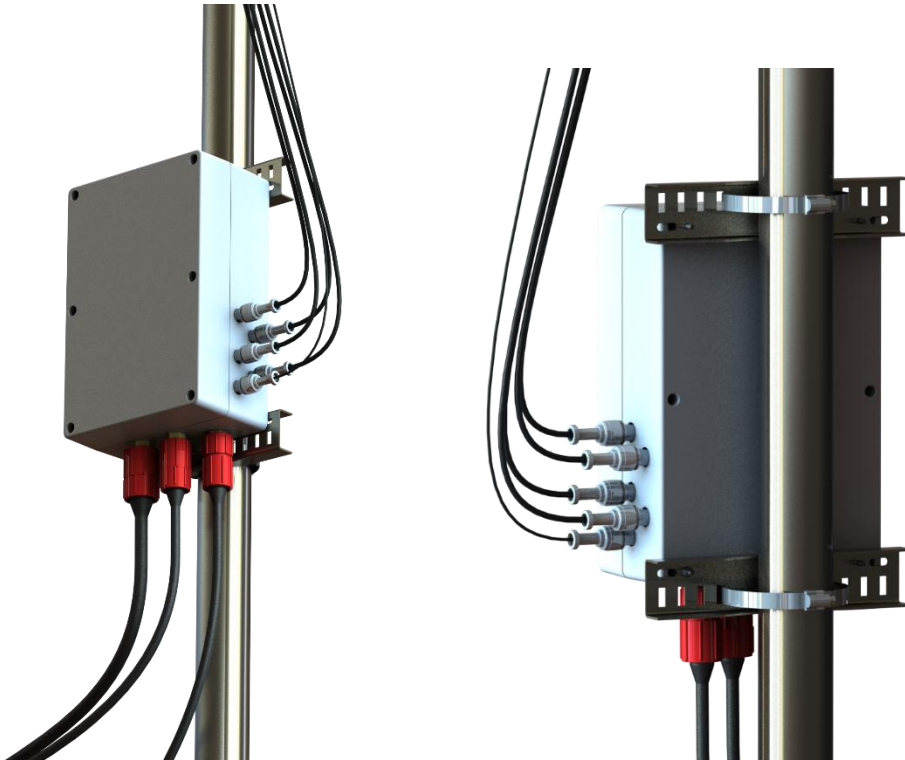




Junction Box High Level Specifications

Introduction

This document describes the high level consumptions and connections between the Buoy power or battery and the power and data in relation to the CytoSub. A separate drawing will show the measurements of the Junction Box. The Junction Box as well as the Antenna can be mounted with clamp rings to the pole.



Interface Junction Box

The interface requirements for the whole System is as described below. The measuring consumption is finally dependent on the scheduling protocol. The measuring protocol is RWS DEM responsibility.

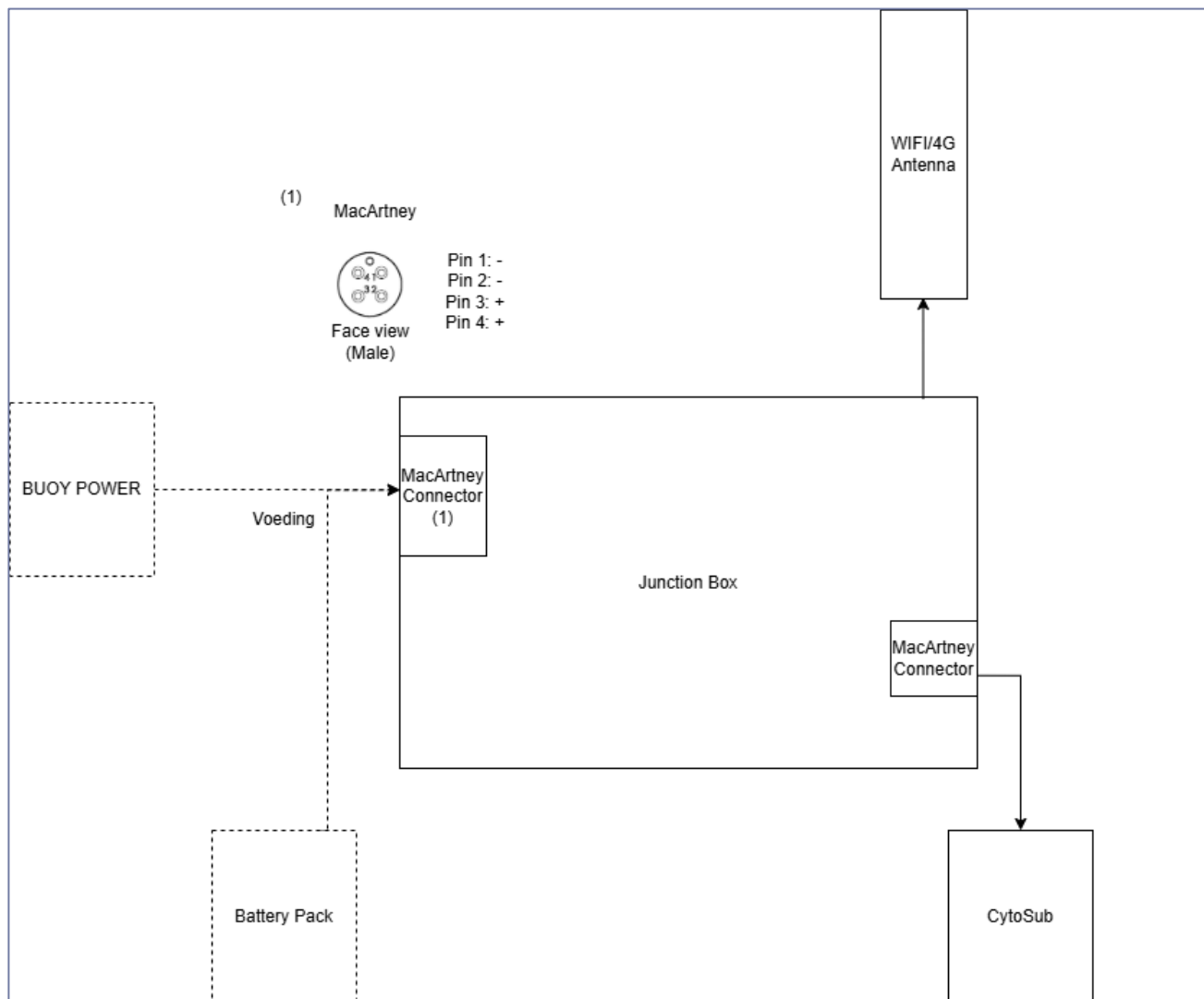
Minimum Voltage	18V
Maximum Voltage	30V
Peak Power	150W
Measuring average	60W
Standby	<7W



Junction Box High Level Specifications

Connecting the Buoy power or battery

The Junction Box comes with a MacArtney 4 pins male connector to be connected on either the Buoy Solar Power or Battery. The pin out is detailed in the drawing underneath. The MacArtney cable and Buoy Power or Batteries are not included in the CytoBuoy Scope.



Connecting to the CytoSub

The connections for power and data to the CytoSub will be provided from the Junction Box. Included in the delivery of CytoBuoy will be a MacArtney cable between the Junction Box and CytoSub.



Junction Box High Level Specifications

Connecting the antenna

The Junction Box will have several connection to support 4G or Wi-Fi with an antenna. Included in the delivery will be an antenna with mounting plate, clamp ring and cables of max. 3m. The pole for connecting the antenna is not included. The clamp rings are provided for a standard size pole with diameter of appr. 60 cm.

