## Monitoring Network Components List

Part Name / Model	Description
Arduino Nano	Collector Device (requests data from sensor node devices)
Raspberry Pi 3B	Parser Device (process and push data to InfluxDB)
Arduino Uno	Sensor Node Device (connect to sensor and take values)
Arduino Due	Sensor Node Device (connect to sensor and take values)
Arduino Nano	Sensor Node Device (connect to sensor and take values)
Freetronics Etherten	Sensor Node Device (connect to sensor and take values)
Freetronics DOG	Watchdog Timer Reset Module
Mini W5100	SPI ethernet adapter module
HP JL256A Aruba 2930F	48 port managed ethernet switch
Maxim MAX31855K	Thermocouple to digital converter
K-Type Thermocouple Thorlabs FDS100	Temperature and bakeout monitoring
	Silicon photodiode for laser power monitoring
Microchip MCP6044	Low voltage single supply quad op amp for transimpedence amplifiers
Thorlabs SM1CP2	Parts to conveniently mount photodiodes to optical table
Thorlabs SMR1/M	Parts to conveniently mount photodiodes to optical table
Thorlabs NE01A-B	Parts to conveniently mount photodiodes to optical table
Thorlabs STO5S	Parts to conveniently mount photodiodes to optical table
Agilent UHV-24P	Ionisation gauge for detecting vacuum pressure
Agilent XGS-600	Ionisation gauge controller
MAX3232	RS232 serial to TTL level converter for communication with vacuum gauge
SP3232	RS232 serial to TTL level converter for communication with vacuum gauge
LaserMet LS10-12	High power laser safety interlock shutter
Vishay VO2630	Optocoupler for interfacing with laser shutter
DRV425EM	Fluxgate magnetic field sensor for background field monitoring
DHT22	Basic temperature and humidity sensor
BME280	Basic temperature, humidity, and air pressure sensor
XF-936-FAR	RTD PT100 platinum high accuracy temperature probe
MAX31865	PT100 amplifier and digital converter
CASR6	6A fluxgate-based electrical current transducer
CASR15	15A fluxgate-based electrical current transducer
CASR50	50A fluxgate-based electrical current transducer
SSD1306	I2C OLED displays
OZ Optics OPM-11-780	Optical fibres with 1% optical tap and photodiode for power monitoring