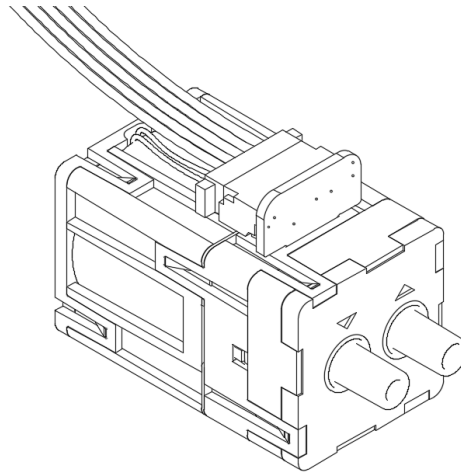




Rev U.2

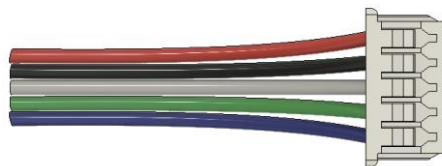
Xavitech V100



Technical Data

| | Min | Typical | Max |
|---------------------------|------------------|------------|------------|
| Supply Voltage (V100-12V) | - | 12 V | - |
| Supply Voltage (V100-5V) | - | 5 V | - |
| Flowrate | - | 200 ml/min | - |
| Vacuum | - | 300 mbar | - |
| I2C logic levels | - | 2.8 V | 3.3 V |
| I2C speed grade | - | 100 kbit/s | 400 kbit/s |
| VCC Capacitor (V100-12V) | 100 μ F, 16V | - | - |
| VCC Capacitor (V100-5V) | 47 μ F, 10V | - | - |

Electrical Interface



Red – VCC
Black – GND
White – IO
Green – SCL (I2C clock)
Blue – SDA (I2C data)

Pull-up resistors are needed for the I2C communication lines. Suitable values depend on the bus capacitance. Some master devices have built-in pull-up resistors. A Raspberry Pi for example has **1.8 kOhm** resistors installed.

Logic levels are 2.8 V (max 3.3 V).

A Capacitor parallel to the power supply is recommended to reduce power spikes generated by the electromagnet pump motor. An adapter board with capacitor is sold separately.

Rev0.2

Commands

Commands can generally be temporary settings or stored. To store a setting add **64 (0x40)** to the command number while writing the command.

User Frequency

Command number: **29** (store: 93)

Value: 0-1023 (10 bits). 2 bytes are needed, LSB to MSB. Max value (1023) corresponds to calibrated value. 1 corresponds to lowest possible setting and 0 will turn the pump off.

Revision History

0.1 First revision

0.2 Fixed error in communication structure. Values are sent LSB first, not MSB first.