

HYDROPATH

HYDROKNCT INSTALLATION



HYDROKNCT

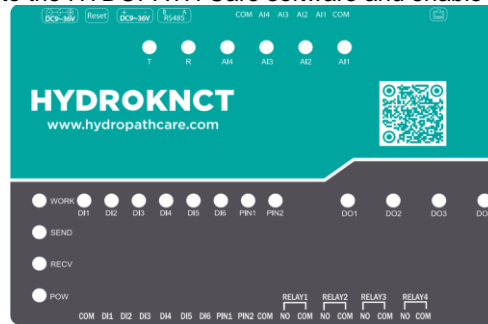
HYDROPATH CARE



HYDROKNCT INSTALATION

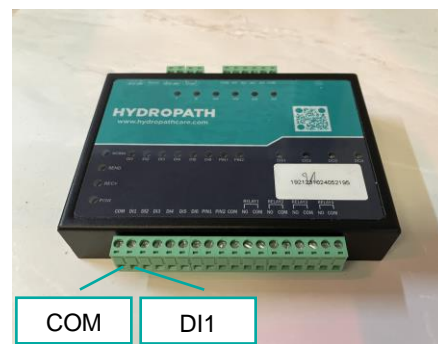
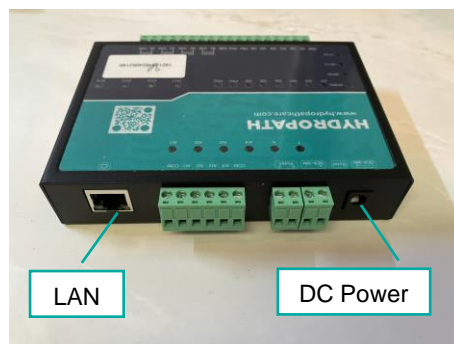
INTRODUCTION

Setup of the HYDROKNCT is straightforward. Once connected to the internet and powered on the device will automatically connect to the HYDOPATH Care software and enable monitoring immediately.



PORTS AND CONNECTORS

The HYDROKNCT has a number of connection options. These are shown in the diagrams below.



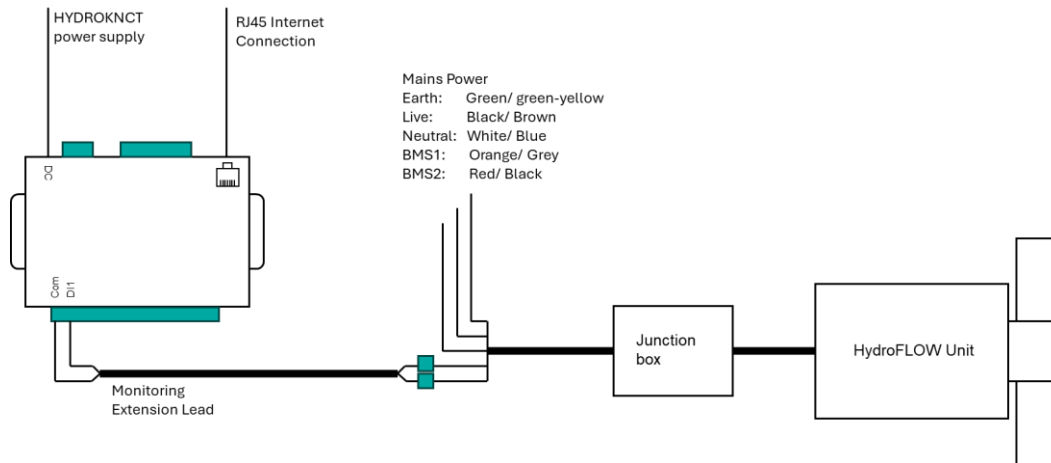
The required ports are as follows:

- The RJ45/ LAN Port
- The DC power socket
- The COM and DI1 Digital input ports

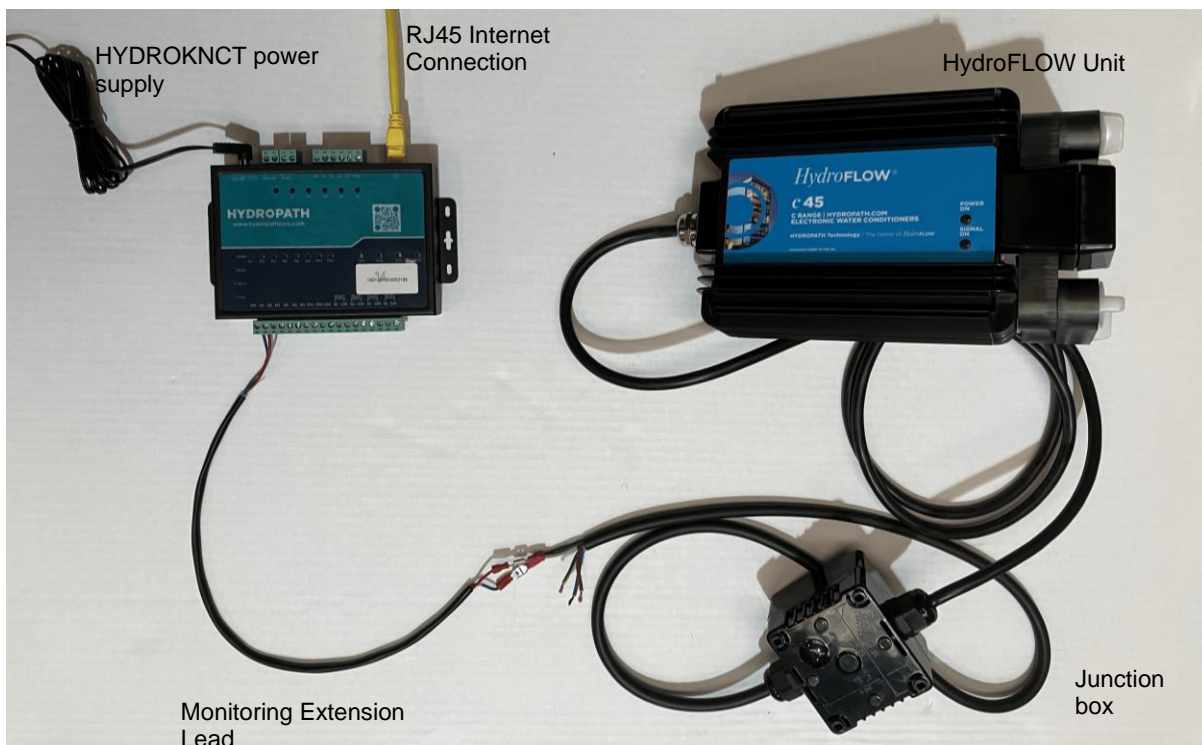
Other ports will be used in future upgrades.



CONNECTIONS



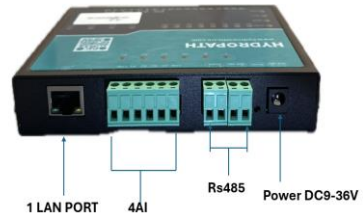
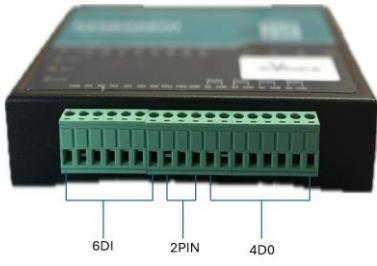
- A schematic of how to connect the Hydroflow to the HYDROKNCT is shown above, with a photograph of the connection shown below.



- Connect the BMS leads from the junction box COM and DI1 ports of the Net Device.
 - This can be via an additional cable as shown if needed.
- Connect the Net Device to the internet via a RJ45 cable.
- If there is no local hardwired network available, the RJ45 cable can be connected via a commercially available RJ45-to-WiFi device or a RJ45-to-mobile internet device.
- Set up HYDROPATHKNCT, then use the Ethernet cable to link the network port of the network device (router/switch/other) to the network. After turning on the device, the WORK indication should flash for 3 seconds, indicating that the network hardware environment in which it is located is normal and Ethernet data can be transmitted.

The HYDROKNCT is configured to automatically connect to the HYDROPATH Care software.

CONNECTION PORTS





TECHNICAL SPECIFICATION

Hydroknc2 is an IO product for networks that has six channels for detecting dry and wet nodes, four for relay output (COM and NO), four for analogue detection (current 420mA) and one for transparent transmission through a serial port. It can communicate with the Modbus RTU/TCP network. The major feature being "remote control" makes it extremely user-friendly and allows users to effortlessly incorporate it into their own systems to achieve.

NETWORK PARAMETERS

| | |
|--------------------------------------|---------------------------------|
| Network Type | Ethernet |
| Number of network port | LAN 1 |
| Network Port type | Ethernet Signal RJ45 |
| Electromagnetic isolation protection | 1.5KV electromagnetic isolation |

POWER SUPPLY (AC/DC ADAPTOR)

| | |
|---------|---------------------|
| INPUT | 100/200 VAC 50/60Hz |
| OUTPUT | 9V-----1A |
| CURRENT | 60mA @ 9V |

SERIAL PORT

| | |
|-----------------|------------------|
| Number of ports | RS485*1 |
| Standard | RS485: A, B |
| Baud Rate | 600 to 921600bps |
| Data bit | 8,9 |
| Stop bit | 0.5, 1, 1.5 2 |
| Check digit | NONE, EVEN, ODD |

DO RELAY

| | |
|-----------------------|---------------------|
| Number of interfaces | 4 switching outputs |
| Standard | NO*4, COM*4 |
| Mechanical durability | 10 ^ 7 |
| Electrical durability | 10 ^ 5 |
| Capacity | 5A 250VAC 30VDC |



AI

| | |
|----------------------|--------------|
| Number of interfaces | 4 |
| Standard | AI*4, COM *2 |
| Examination range | 4 ~ 20mA |

DI

| | |
|----------------------|---------------------------------|
| Number of interfaces | 6 switches |
| Standard | DI *6, COM *1 |
| Detection range | 50~50v for high and 0~2 for low |

PI

| | |
|----------------------|---------------|
| Number of interfaces | 2 Pulse count |
| Standard | PI*2, COM *1 |
| Examination range | 10000Hz |