When installing the helm, you will be asked for the following information;
Select the vessel type
Select the drive unit class as **other**
Select the drive unit voltage as **12V**
Select the clutch voltage as **12V**
Select **no** shadow drive
Calibrate the rudder
Test the steering direction

**Garmin GHP 12 with Octopus Type R (remote) Autopilot Drive**

To GHC 20 Power/Data Cable, Must be connected

**Please Note:** GHC 20 must connect to same ground as the GHP 12 ECU

- **Black** ( - )
- **Yellow**

2m N2k Power Cable (Yellow)

NMEA 2000 Network (N2k)

- **N2k Male Terminator**
- **N2k Female Terminator**

2m N2k Drop Cable

**GHP 12 CCU**

- **Red (+)**
- **Black (-)**

**GHP 12 ECU**

- **Red (+)**
- **Black (-)**

9-16 VDC
3 Amp fuse rating

- **Uninsulated Drain Wire** (-)

**GHP 12 Alarm Buzzer**

- **Red (+)**
- **White (+)**
- **Blue (-)**
- **Black (-)**

Solder & Shrink wrap Splices

**GHP 12 ECU/ Feedback Cable**

- **Red**
- **Black**
- **Feedback (+)**
- **Feedback (-)**
- **Feedback wiper**
- **N/A**

2m N2k Power Cable

**Note:** Type R drive requires a 12V input for both the motor drive and the clutch.

Top View

- Integral Rudder Feedback Module
- Part #: OC15SU027E

- **Red**
- **Black**
- **White**
- **Shield**
- **N/A**

- **Green**
- **Clutch (+)**
- **Blue**
- **Clutch (-)**
- **White**

Type R Autopilot Drive (Remote)

- **Top View**

Select the vessel type
Select the drive unit class as **other**
Select the drive unit voltage as **12V**
Select the clutch voltage as **12V**
Select **no** shadow drive
Calibrate the rudder
Test the steering direction

**GHC 20**

- **Yellow**
- **Black (-)**

**CCU to ECU Interconnect Cable**

12 or 24 VDC, 40 Amp fuse rating
Garmin GHP 12 with Octopus Type S & T with autopilot R drive
(Standard or Tilt Helm)

When Installing the helm, you will be asked for the following information:

- Select the vessel type
- Select the drive unit class as [other]
- Select the drive unit voltage as [12V]
- Select the clutch voltage as [12V]
- Select [no] shadow drive
- Calibrate the rudder
- Test the steering direction

**Please Note: GHC 20 must connect to same ground as the GHP 12 ECU**