



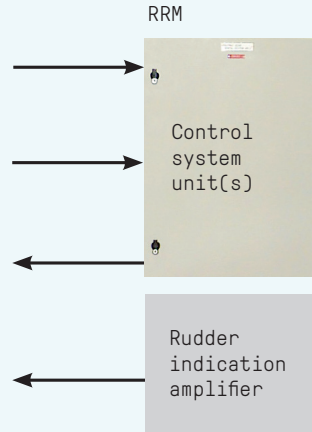
## INTERFACE TO ANALOGUE JOYSTICK

Voltage free take over contact (one for each rudder)

Galvanic isolated +/-10VDC order signal, one for each rudder (+ = port / - = stbd)

Voltage free ready signal (one for each rudder) (run and take over confirmation)

Galvanic isolated +/-10VDC rudder position signal (one for each rudder)



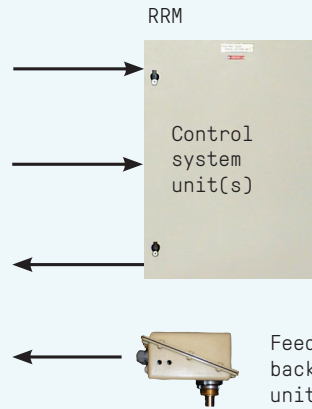
## INTERFACE TO ANALOGUE DYNAMIC POSITION SYSTEM (DP)

Voltage free take over contact (one for each rudder)

Galvanic isolated +/-10VDC order signal, one for each rudder (+ = port / - = stbd)

Voltage free ready signal (one for each rudder) (run and take over confirmation)

Potentiometer (5k) rudder position signal (one for each rudder)



## INTERFACE TO VOYAGE DATA RECORDER (VDR)

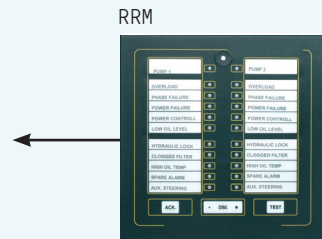
Alarm outputs on RS422 NMEA text transmission

- Overload
- Phase failure
- Power failure pump
- Power failure control
- Low oil level

Voltage free pump running contacts (one for each rudder)

Galvanic isolated +/-10VDC order signal, (one for each rudder) and/or on/off rudder order signal (NFU) (on/off signal also include emergency steering)

Galvanic isolated +/-10VDC rudder position signal (one for each rudder)



Alarm panel on the bridge

