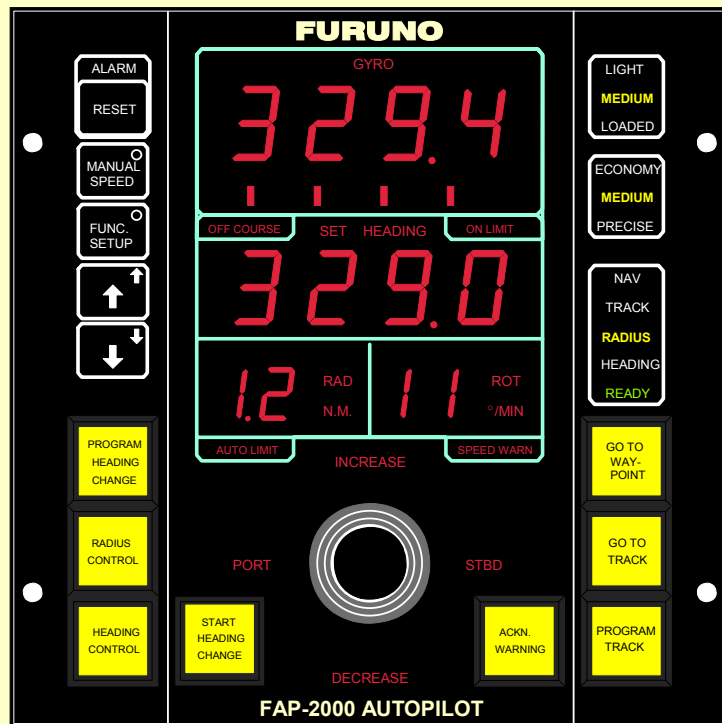


FURUNO

AUTOPILOTS



Second to none....

FURUNO Autopilot type FAP-2000

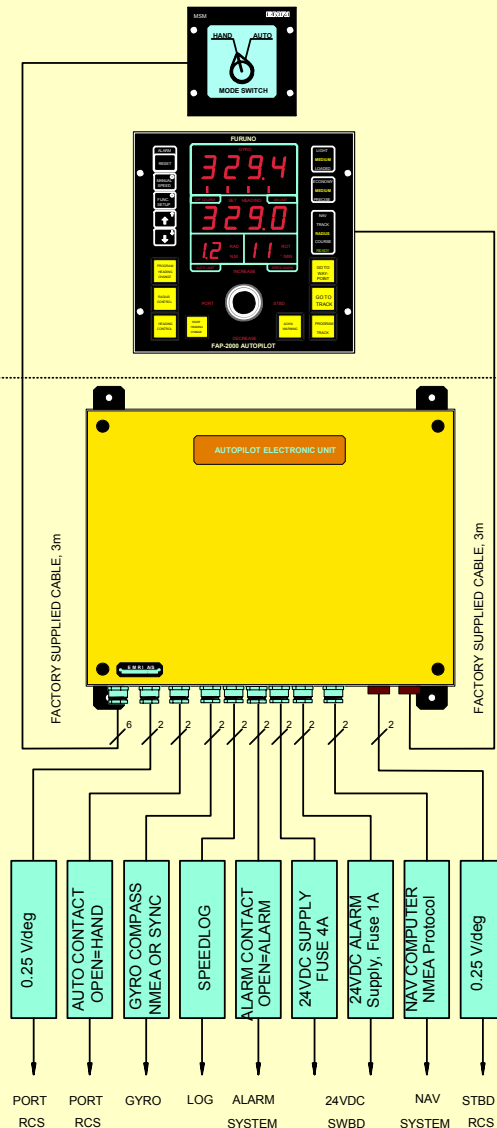
Steering Mode Switch

Control Panel

Electronic Unit
with Microcomputer

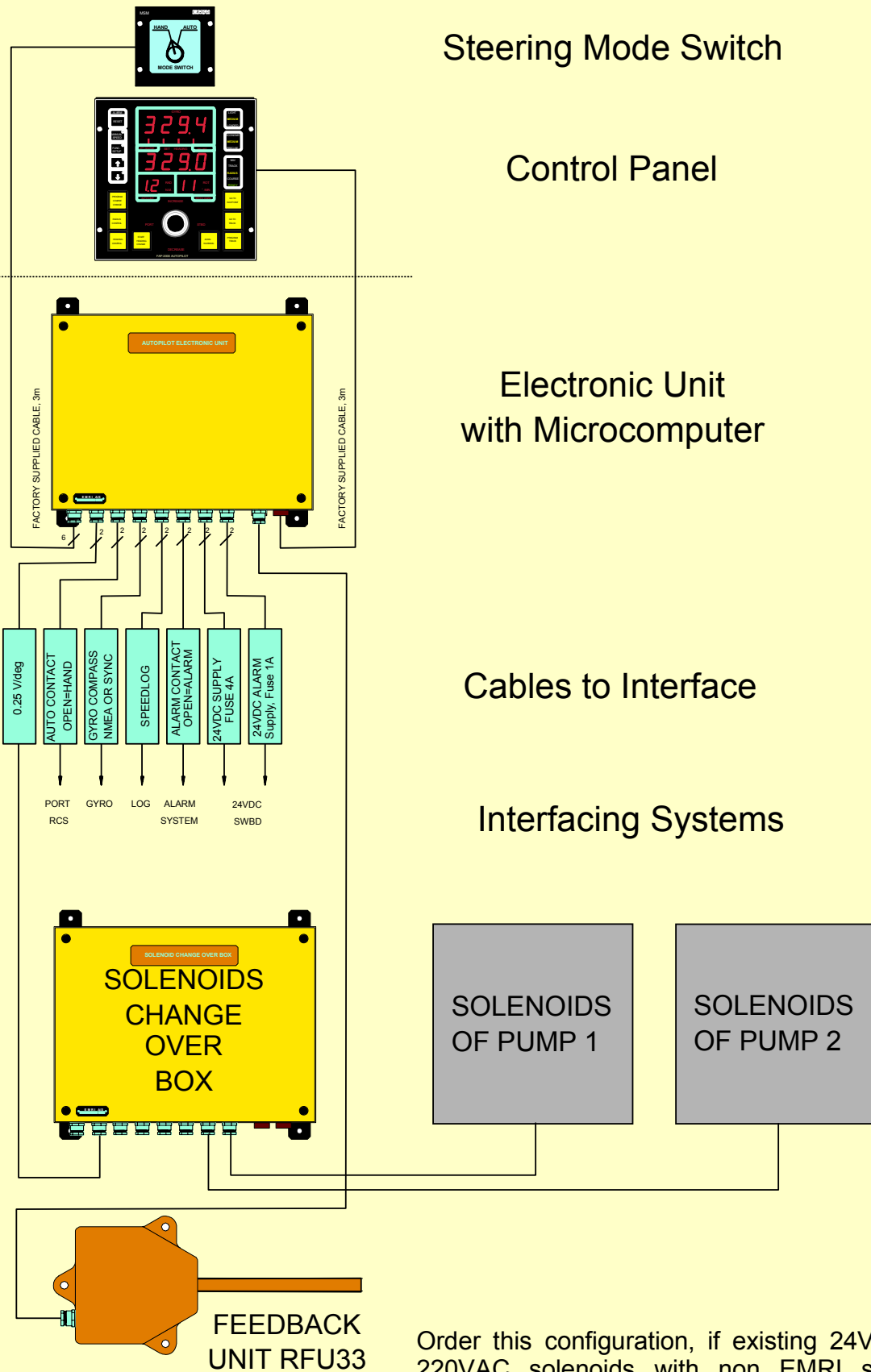
Cables to Interface

Type of
Interfacing Systems:
1 or 2 closed loop
steering control systems



- ▶ Low cost adaptive autopilot
- ▶ Preset from factory, simple sea trial setup
- ▶ Easy installation
- ▶ Easy service
- ▶ Gyro interface: NMEA
- ▶ Speed log interface: NMEA (preferred) or 200 pulses pr mile
- ▶ Heading changes with controlled radius of turn
- ▶ Heading changes with Joystick, 1 deg pr click.
- ▶ Meets IMO's recommendations, tested to IEC 945, wheelmarked
- ▶ Advanced navigation computer interface available
- ▶ Controls single or multiple rudders, propellers and waterjets

FURUNO Autopilot type FAP-2000



Steering Mode Switch

Control Panel

Electronic Unit with Microcomputer

Cables to Interface

Interfacing Systems

SOLENOIDS OF PUMP 1

SOLENOIDS OF PUMP 2

FEEDBACK UNIT RFU33

Order this configuration, if existing 24VDC or 220VAC solenoids with non EMRI supply source is met.

The SCO-box includes solid state relays.

FURUNO AUTOPILOTS

List of Features:

- MARINE EXPERIENCE: 250 Ships.
- Bumpless Transfer & self-synchronizing Heading
- Homework done. Preset to basic ship data.
- Easy to SET UP, adapts to ship's speed
- Easy to install. 2 Units, 1 Factory supplied cable.
- RADIUS control on top of ISO standard requirements
- IMMEDIATE or PROGRAMMED heading change modes
- ADVANCED Navigation Computer Interface.
 - WAYPOINT mode
 - TRACK mode
 - PROGRAM TRACK (=Course) mode
- Safe Hard Weather Handling capabilities.
- Qualified factory support.
 - Also to difficult steering gear interfaces.

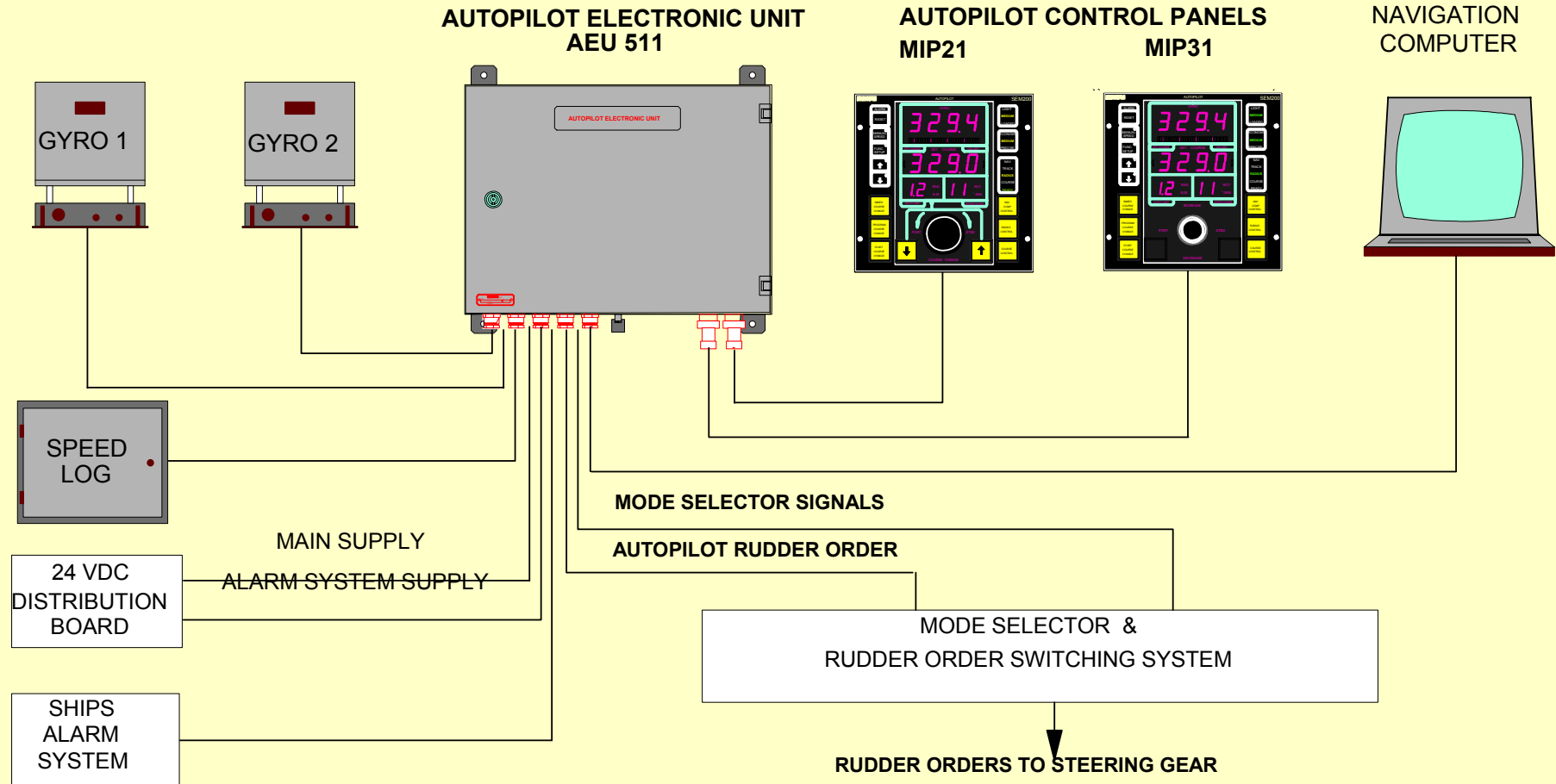
WHY BETTER ?

- Competitive in price.
- Easiest adaptive autopilot to set up.
 - By Technicians
 - By Navigators
- Reported to steer very well. (Cruising).
- Reported to manoeuvre very well.

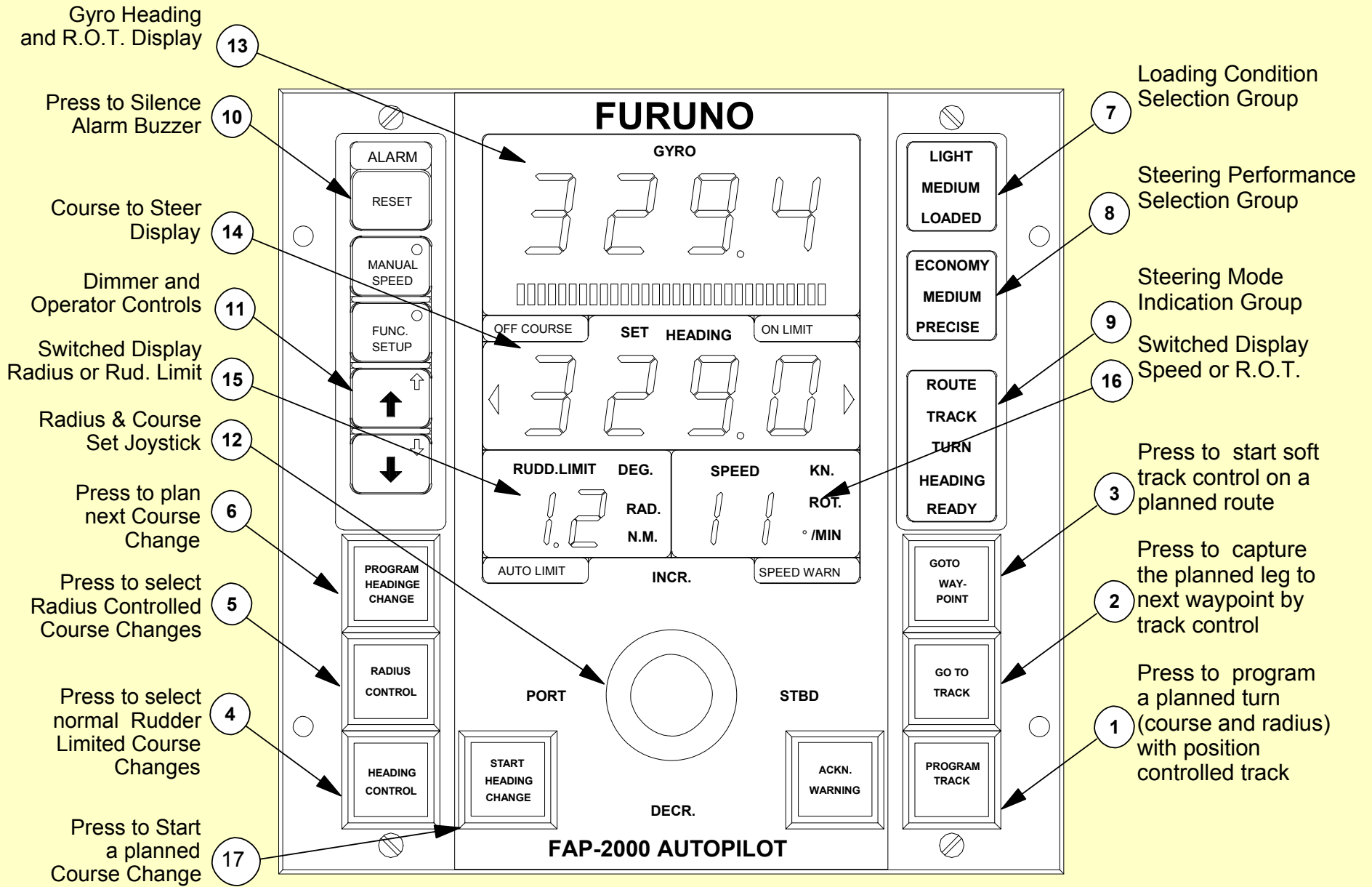
TECHNICAL DETAILS

- INTERFACE:
- NMEA 0183; 2 inputs
- SPEED: NMEA or 200 pulses/mile
- NAV.COMPUTER: NMEA
- Dry Contacts for alarm
- Steering Gear: Analog:
 - ▶ +/-10V rudder order
- Steering Gear: Bang-Bang:
 - ▶ PORT/STBD Steering contacts
 - ▶ Rudder angle feedback, RFU33
- POWER:
 - ▶ MAIN: 24VDC, max 3A
 - ▶ ALARM: 24VDC, max 0.1A
- ENVIRONMENTS:
 - ▶ Tested to IEC945
- MICROCOMPUTER:
 - ▶ 1 in each unit, Motorola 68332
 - ▶ FLASH PROM storage
 - ▶ Programmed in "C".
- TECHNICAL INTERFACE:
- Level 0: (Navigators)
 - ▶ Front panel push-buttons
- Level 1: (Engineers or navigators)
 - ▶ Internal (AEU-BOX) DIP-switches
- Level 2: (Technicians)
 - ▶ Serial port (RS232) of portable PC
 - ▶ Using a standard terminal program or a communications program
- Level 3: (Certified technicians)
 - ▶ Parallel Port of portable PC to download basic software.

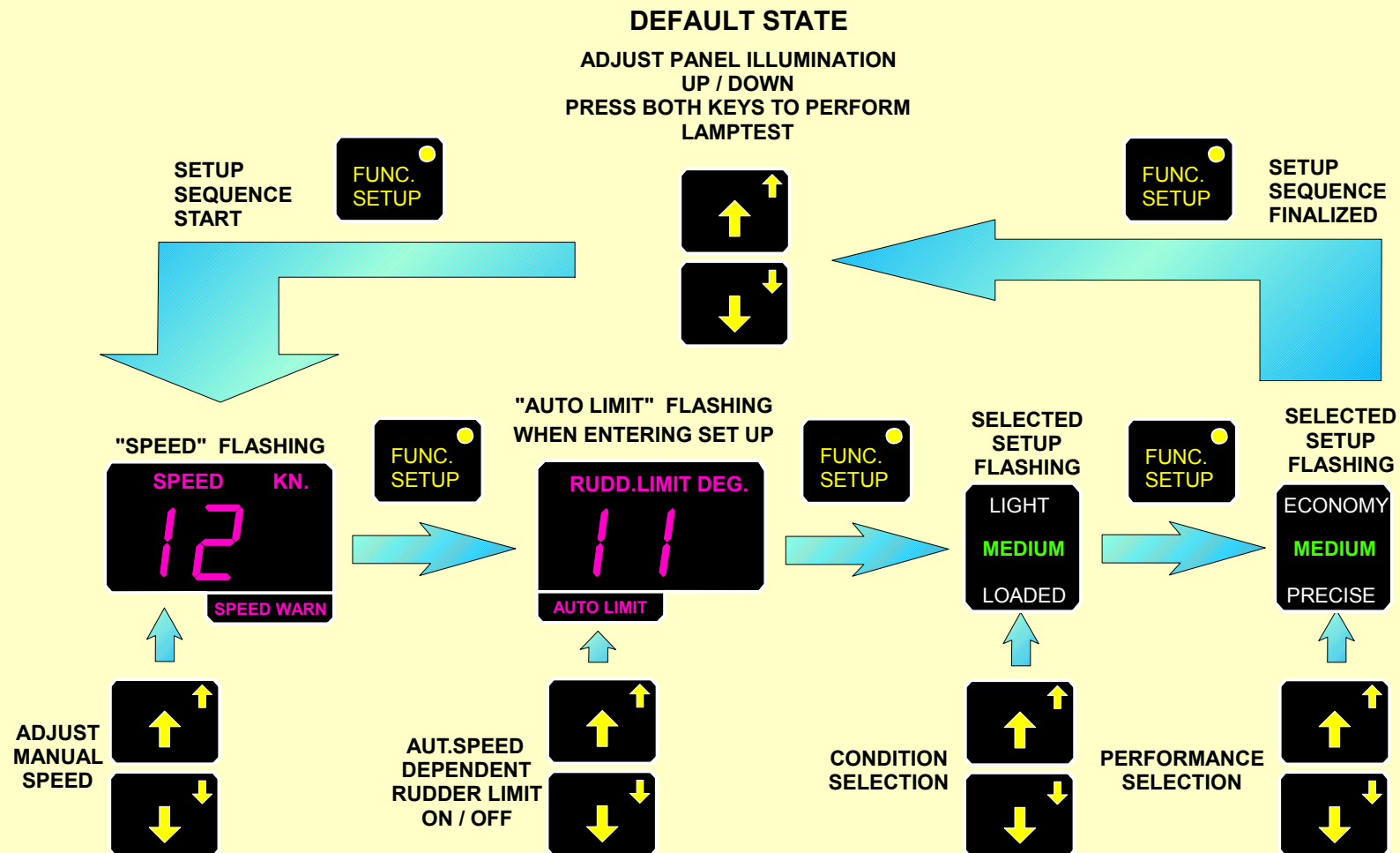
FURUNO AUTOPILOT SYSTEM



MIP41-000 CONTROL PANEL



USER SETUP GROUP



- THE MANUAL SPEED ADJUST IS ONLY A PART OF THE SETUP SEQUENCE IF MANUAL SPEED IS SELECTED.
- THE AUTO LIMIT ON / OFF SELECTION IS ONLY A PART OF THE SETUP SEQUENCE IF IN COURSE CONTROL MODE WHERE THE RUDDER LIMIT IS AUTOMATICALLY SELECTED.