

ELECTRICAL SWITCHBOARDS



Instruments

Analogue 48x48mm

Analogue meters offer a quick and accurate reading of the volts and amps. The voltmeter indicates the state of the battery whereas the ammeter indicates the instantaneous state of charge and discharge of the battery. Zero-centre ammeters are very useful. The charging of the battery deflects the needle to upper side of the scale and the discharging of the battery deflects the needle to the lower side.

2IN1 (120x130)



- Aluminium panel including a DIN 48x48mm analogue meter, voltmeter or ammeter (corresponding current transformer or shunt included). Includes selection switch

ANALOGUE VOLTMETERS 48x48mm



- Direct Current: IA12-DC: Scope 9... 15V
IA24-DC: Scope 18... 30V
- Alternating current: IA300-AC: Scope 0... 300V
IA150-AC: Scope 0... 150V
- Frequency meter:
IA50-HZ: Scope 45... 55Hz, input 230V AC

2IN2 (120x130)



- Aluminium panel including 2 DIN 48x48mm analogue meters (current transformer or shunt included as required). With 2 selection switches

ANALOGUE AMMETERS 48x48mm



- ALTERNATING:
- IA25-AC: 0... 25A, internal current transformer
IA40-AC: 0... 40A, input 5A, current transformer required 40A/5A
IA60-AC: 0... 60A, input 5A, current transformer required 60A/5A
- DIRECT:
- IA25-DC: 0... 25A, input 60mV, shunt required
IA40-DC: 0... 40A, input 60mV, shunt required
IA40C-DC: -40... 0... 40A, input 60mV, shunt required
IA60-DC: 0... 60A, input 60mV, shunt required
IA60C-DC: -60... 0... 60A, input 60mV, shunt required
IA80-DC: 0... 80A, input 60mV, shunt required
IA80C-DC: -80... 0... 80A, input 60mV, shunt required
IA100-DC: 0... 100A, input 60mV, shunt required
IA100C-DC: -100... 0... 100A, input 60mV, shunt required

IT01 / IT02



- IT01: single pole micro switch + nut to read the amps and/or volts
- IT02: double pole micro switch + nut to read the amps and/or volts

Panel with analogue voltmeter

2IN1-12	Panel with a 9...15V DC voltmeter (2 readings)
2IN1-24	Panel with a 18...30V DC voltmeter (2 readings)
2IN1-230	Panel with a 0...300V AC voltmeter (2 readings)

Panel with AC analogue voltmeter and ammeter

2IN2-220-25	Panel with a 230V AC voltmeter (2 readings) and a 0...25A AC ammeter (current transformer included)
2IN2-220-40	Panel with a 230V AC voltmeter (2 readings) and a 0...40A AC ammeter (current transformer included)
2IN2-220-60	Panel with a 230V AC voltmeter (2 readings) and a 0...60A AC ammeter (current transformer included)

Panel with AC analogue ammeter

2IN1-25-TRAFO	Panel with a 25A AC ammeter (current transformer included) - 2 readings
2IN1-40-TRAFO	Panel with a 40A AC ammeter (current transformer included) - 2 readings
2IN1-60-TRAFO	Panel with a 60A AC ammeter (current transformer included) - 2 readings

Panel with DC analogue ammeter

2IN1-25	Panel with 0...25A DC analogue ammeter (shunt included) - 1 reading
2IN1-40	Panel with 0...40A DC analogue ammeter (shunt included) - 1 reading
2IN1-60	Panel with 0...60A DC analogue ammeter (shunt included) - 1 reading
2IN1-80	Panel with 0...80A DC analogue ammeter (shunt included) - 1 reading
2IN1-100	Panel with 0...100A DC analogue ammeter (shunt included) - 1 reading
2IN1-40C	Panel with -40...0...40A DC analogue ammeter (shunt included) - 1 reading
2IN1-60C	Panel with -60...0...60A DC analogue ammeter (shunt included) - 1 reading
2IN1-100C	Panel with -100...0...100A DC analogue ammeter (shunt included) - 1 reading

An optional Shunt is necessary in case 2 amps reading is required

Panel with DC analogue voltmeter and ammeter

2IN2-12-25	Panel with a 12V DC voltmeter (2 readings) and a 0...25A DC ammeter (shunt included)
2IN2-12-40	Panel with a 12V DC voltmeter (2 readings) and a 0...45A DC ammeter (shunt included)
2IN2-12-60	Panel with a 12V DC voltmeter (2 readings) and a 0...60A DC ammeter (shunt included)
2IN2-12-80	Panel with a 12V DC voltmeter (2 readings) and a 0...80A DC ammeter (shunt included)
2IN2-12-100	Panel with a 12V DC voltmeter (2 readings) and a 0...100A DC ammeter (shunt included)
2IN2-24-25	Panel with a 24V DC voltmeter (2 readings) and a 0...25A DC ammeter (shunt included)
2IN2-24-40	Panel with a 24V DC voltmeter (2 readings) and a 0...40A DC ammeter (shunt included)
2IN2-24-60	Panel with a 24V DC voltmeter (2 readings) and a 0...60A DC ammeter (shunt included)
2IN2-24-80	Panel with a 24V DC voltmeter (2 readings) and a 0...80A DC ammeter (shunt included)
2IN2-24-100	Panel with a 24V DC voltmeter (2 readings) and a 0...100A DC ammeter (shunt included)

An optional Shunt is necessary in case 2 amps reading is required

Panel with DC analogue voltmeter and ammeter with central zero

2IN2-12-40C	Panel with a 12V DC voltmeter (2 readings) and a -40A...0...+40A DC ammeter (shunt included)
2IN2-12-60C	Panel with a 12V DC voltmeter (2 readings) and a -60A...0...+60A DC ammeter (shunt included)
2IN2-12-100C	Panel with a 12V DC voltmeter (2 readings) and a -100A...0...+100A DC ammeter (shunt included)
2IN2-24-40C	Panel with a 24V DC voltmeter (2 readings) and a -40A...0...+40A DC ammeter (shunt included)
2IN2-24-60C	Panel with a 24V DC voltmeter (2 readings) and a -60A...0...+60A DC ammeter (shunt included)
2IN2-24-100C	Panel with a 24V DC voltmeter (2 readings) and a -100A...0...+100A DC ammeter (shunt included)

ELECTRICAL SWITCHBOARDS

Instruments

Digital

Digital instruments offer a very accurate and precise measuring reading on board even if there is low light. For DC readings, a shunt is required for each battery bank. For AC readings, a current transformer is required.

2DIG (120x130)



Panel with a DC digital voltmeter and a DC digital ammeter:
2DIG-12-100: 12V, 0 ... 199,9V and 0 ... $\pm 99,99A$ + 1 shunt
2DIG-24-100: 24V, 0 ... 199,9V and 0 ... $\pm 99,99A$ + 1 shunt
2DIG-24-250: 24V, 0 ... 199,9V and 0 ... $\pm 999A$ + 1 shunt
Panel with an AC digital voltmeter and an AC digital ammeter:
2DIG-230-100: 0 ... 999V and 0 ... 99,99A + current transformer 100A/5A

CURRENT TRANSFORMER



TRAFO-40: Current transformer 40A/5A
TRAFO-60: Current transformer 60A/5A
TRAFO-100: Current transformer 100A/5A
All our current transformers are bandwidth

SWITCH

BUTTON



IR01: 3 position rotary switch to read the amps and/or volts



B001: Button for IR01 switch

SHUNT



SHUNT-25: 25A/60mV, precision 0,5%fs
SHUNT-40: 40A/60mV, precision 0,5%fs
SHUNT-60: 60A/60mV, precisión 0,5%fs
SHUNT-80: 80A/60mV, precision 0,5%fs
SHUNT-100: 100A/60mV, precision 0,5%fs
SHUNT-250: 250A/60mV, precision 0,5%fs



All the modules indicated in this catalogue are supplied with the necessary fixing screws

3DIG (120x65)



3DIG-12: Panel with a 12V DC digital voltmeter, 0... 199,9V

3DIG-24: Panel with a 24V DC digital voltmeter, 0... 199,9V

3DIG-300: Panel with a 230V AC digital voltmeter, 0... 300V

3DIG-100-12: Panel with a digital ammeter, 0... 99,99A. Power supply: 12V DC, shunt 100A/60mV

3DIG-100-24: Panel with a digital ammeter, 0... 99,99A. Power supply: 24V DC, shunt 100A/60mV

3DIG-100TRAFO: Panel with a digital ammeter, 0... 99,99A. Power supply: 230V AC, current transformer 100A/5A included

3DIG-50-HZ: Panel with a frequency meter. Power supply 230V AC

DIGITAL VOLTMETERS



DC CURRENT ID12-DC: Scale 0... 199,9V. 12V DC
 ID24-DC: Scale 0... 199,9V. 24V DC
 AC CURRENT ID300-AC: 0 ... 999,9V. 230V AC

DIGITAL AMMETERS



AC:
 ID100-AC: 0... 99,99A, current transformer 100A/5A required

DC:
 ID100-12-DC: 0... 99,99A, 12V DC, shunt 100A/60mV required
 ID100-24-DC: 0... 99,99A, 24V DC, shunt 100A/60mV required
 ID250-24-DC: 0... 999,9A, 24V DC, shunt 250A/60mV required

OTHER

ID100-TEMP: Thermometer -99,9°C... 0... 199,9°C, PT-100 temperature sensor required. Power supply 12/24V DC. Please, contact us for availability
 ID50-HZ: Digital frequency meter 45... 55Hz. Power supply 230V AC

TEMPERATURE SENSOR



AI06: PT-100 temperature sensor required. -100... +200°C Special. Please, contact us for availability

ELECTRICAL SWITCHBOARDS

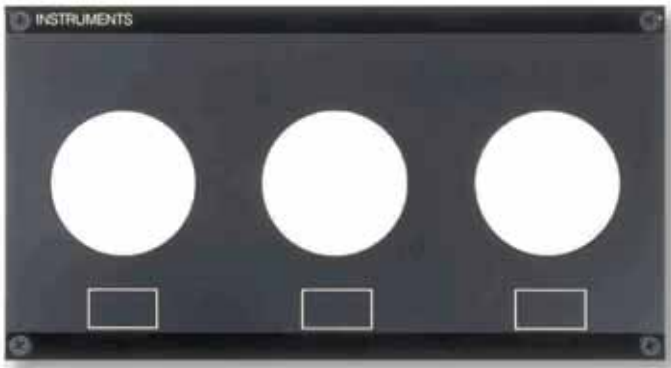


Instrument

Modules

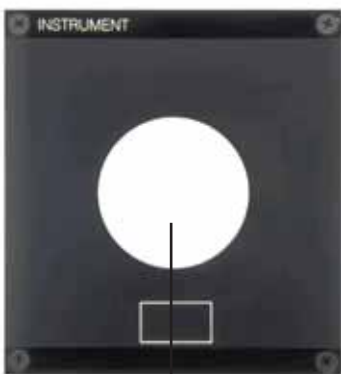
Some important indicators, such as fuel gauge, oil pressure, fresh water level, essential for your boat, are not centralised. Our instrument panels offer the possibility to integrate all these indicators to the switchboard system. Thus you can improve your control centre with better reading facilities.

1IM1 (240x130)



- Module without instrument which accepts three 52mm diameter instruments
- For front mounting

2I53 / 2V72 (120x130)

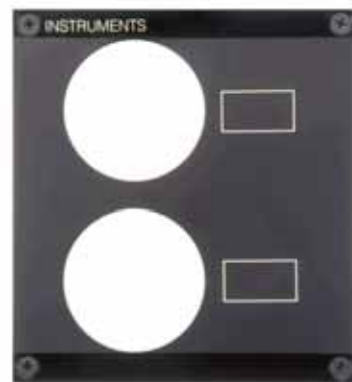


- Module without instrument which accepts one 52mm/72mm diameter instrument. For front mounting



You can mount any instrument with a 52mm or 72mm diameter on the instrument modules

2V52 (120x130)



- Module without instrument for two 52mm diameter instruments. The diameter of the holes is 51mm, i.e. instruments have to be mounted at the rear part of the panel
- Fixing clips for instruments included



All the modules indicated in this catalogue are supplied with the necessary fixing screws