

Watertight marine instruments with illumination

Types DLQW72 and DLQW96

4921250050F



- DLQW72: Bezel dimension Q78 for IP66 proof switchboard front
- DLQW96: Bezel dimension Q102 for IP66 proof switchboard front
- · Custom-designed coloured scales on black base
- LED illumination (long life)
- Separate pointer illumination
- · Colour spectrum constant throughout dimmer range
- Shock resistant up to 50 g
- Approved according to the European Marine Directive



General technical specifications

Instruments	are designed according to below mentioned standards	Standards
	Class 1.5 (-10 <u>1530</u> 55 ℃)	
Accuracy	Linear scales: ±1.5% of Full Scale value (FS)	EN 60051 and IEC 51
Accuracy	±1.5 % of 1 dif ocale value (1 3)	EN 00031 and IEO 31
	Non-linear scales: ±1.5% of scale length	
Instrument sizes	102 x 102 mm	
Scale/pointer	Scale material: Acrylic Triangular pointer Yellow/white	DIN 43802 (standard pointer)
Glass	Antiglare glass	
Mounting angle	Standard: Vertical (90 ±5°), however, may be mounted at any angle 0150° horizontal, without this affecting the calibration	to DIN 16257
Compass safety distance	To be mounted at least 1 metre from the compass	IEC 945 and EN 60945
Measuring ranges	See page 3 Others on request	DIN 43701
Protection		
	From front From rear	
(Housings)	IP66 IP52	JEC 729 and EN 60529
(Terminals)	IP20	
Climate	Class H U E Short term condensing allowed Max. 95% RH: Max. 30 days per year Max. 85% RH: Remaining days Max. 75% RH: Average per year	DIN 40040
Temperature	Nominal: -1055 °C Operating: -2560 °C Storage: -2565 °C Influence: Max. ±1.5% within -10 65 °C	EN 60051 and IEC 51
Panel influence	The accuracy is affected neither by the material nor by the thickness of the panel	EN 60051 and IEC 51
Shock test	18 x 50g half sine (11ms)	IEC 68-2-27, Test: Ea
Vibrations	313.2Hz: 2 mm 13.2-100Hz: 0.7g	GL + LR: Test 1 DNV: Class A
Materials	13.2-100Hz: 0.7g All outer materials are en extinguishing	UL94 (V1)
Safety	300V – CAT. III Pollution deg. 2	EN 61010-1
EMC	CE marked for residential, commercial and light industry plus industrial environment	EN 50081-1/2 and EN 50082-1/2

Description

Description		•								
Туре	Sca	Scale base colour		Possible colour combinations figures/division lines		Pointer				
	White	White Black				Standard		Triangular		
		No trans- illuminated section	Yellow trans- illuminated section	Black	Yellow/ white	Red	Green	Black NB*	Yellow NY*	Yellow/ white PY*/PW*
DLQW72/96-pc-PY* Quadratic 240°										
-pc: center pointer		•			•	•	•			•

 $\label{lem:coloured} \mbox{Coloured division lines and figures are transilluminated. The pointer is triangular and illuminated.}$

Technical specifications

Standard r	Standard measuring ranges • Voltage			Standard measuring ranges • Current			
Lowest range	Highest range	Load	Lowest range	Highest range	Load		
01V DC	0100V DC	0.5kΩ/V	01mA DC	0100mA DC	0.6V		
-0.500.5 V DC	-1000100V DC	1kΩ/V	-0.500.5mA DC	-1000100mA DC	0.3V		
			42	1.6V			

The instruments are fitted with a potentiometer with a slotted screw for adjustment of the measuring range (adjustment of ranges 0...1mA, -0.5...0...0.5mA, 4...20mA and other suppressed measuring ranges is not possible). The potentiometer is accessible from the rear of the instrument and is marked "INSTR. ADJ". Standard adjustment range: ±10% (on request: Up to ±50%).

Consumption Illumination	DLQW72-pc	DLQW96-pc
Type –PY/PW	60mA/24V	110mA/24V

Illumination: 24V DC/AC. Adjustment range: 5...30V.



DW96-pc-PY

Connection: Quadratic instruments: Screw terminals for measuring signal and illumentation

Max. 2.5 mm² (multi-stranded), max. 4.0 mm² (short stranded). Alternative connection: Male/female conne 26 AWG cable.

If required by the class, suitable protection against voltage transients (surg must be built into the power supply (e.g. light dimmer unit) to the instrument illumination input.

Due to different construction principles, the visual appearance of the DEW72 differs slightly from that of the DLQW96. differences: The fundamental design is similar, but the user must acknowled

Plastic surroundings and bezel ass window. Glass is sealed with silicone to ensure IP DLQW72: Housing:

class. Black cover printed direct (window (glass).

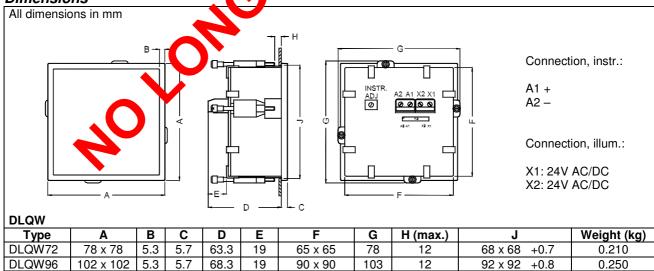
Complete moulded plastic housing including window. The all-in-one moulding process ensures DLQW96:

the IP class. No print on with w, but special cover plate inside housing.

Black, stamped closer cell lubber gasket. Gasket is visible when mounted (side-view). Blue moulded neoping ubber gasket. Gasket is not visible when mounted. Gasket: DLQW72:

DLQW96:

Dimensions



Order specifications

Order specifications						
	Туре	Scale	Measuring range			
Examples:	DLQW96-pc-PY	0100%	010V DC			
-	When ordering new scales	always forward detailed drawing				

Due to our continuous development we reserve the right to supply equipment which may vary from the described.



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