

COEX™ MEWS Safe-Area Wash System

MEWS5-LA

The COEX™ MEWS5-LA wash system is developed specifically for marine and safe-area applications. The wash system allows remote pressure jet washing of the camera station window and low fluid level monitoring, maintaining optimum viewing conditions in the harshest of environments.



Manufactured from the highest-grade electro-polished 316L stainless steel for maximum corrosion resistance, the COEX™ MEWS5-LA wash system is designed for optimal performance and long service life in the harshest of environmental conditions.

Designed for operation in marine and safe-area environments, the MEWS5-LA is the perfect choice to maintain optimum image clarity and performance for C2000 safe-area camera stations.

Comprised of a 10 liter pressurised reservoir and electronically operated solenoid valve, the unit can be installed up to 20 meters below the camera head, allowing servicing and remote operation of the reservoir at ground / deck level. When installed

alongside C2000 safe-area camera stations, the water jet is ejected from a spray nozzle mounted on the window wiper arm to ensure uniform window cleaning.

For convenience, the unit also contains a pressure sensor providing a low fluid level warning output that can be used to signal to a controlling video management system when the wash unit requires refilling.

Various solenoid valve options are available to match the desired power requirements, extending the flexibility for the wash unit to be used with third-party camera stations.

Features

- Electro-polished 316L stainless steel enclosure for optimum corrosion resistance

- 10 liter removable stainless steel reservoir can provide up to 500 wash cycles between refills
- Enclosed system ensures high performance in all climates
- Suitable for antifreeze and detergent additives*¹
- Designed for maintenance access at ground / deck level
- Low pressure/fluid level warning output

Options

- Wide range of operating voltages
- 10 meter wash hose extension kit
- Alternative solenoid plug offering M20 or NPT ½" gland/conduit entry

Specifications

CERTIFICATIONS / RATINGS

EMC	EN61000-6-4, EN61000-6-2
EMC (US & Can.)	FCC 21 CFR 47, part 15 ICES-003
DNV	TAA00001M2

ENVIRONMENTAL

[OPTIONS]

Operating Temperature* ²	[Refer to valve options table]
Ingress Protection	IP66 (solenoid valve), IP56 (main enclosure), IP67/NEMA 6 (switch), IP66/67 (JB)
Salt Mist	IEC60068-2-52, IEC60945 section 8.12
Vibration	0.7g to IEC60068-2-6, IEC60945
Wind Loading	Operational to 130 km/h, survival to 200 km/h

MECHANICAL

Enclosure Material	Electro-polished 316L stainless steel
Enclosure Paint	Available on request
Mounting	3 or 4 x Ø 8 mm (Ø 0.31") holes
Reservoir Type	Stainless steel, manually pressurized
Reservoir Capacity	10 liters (2.2 gallons)
Working Pressure	6 bar maximum
Valve Material	PA covered epoxy
Valve Seal Material	NBR
Fluid Outlet	1/4" bore, 10 m hose
Flow Rate	> 0.5 liters per minute
Dimensions (W x D x H)	346 x 251 x 650 mm (13.62" x 9.88" x 25.59")
Weight Empty	16.9 kg / 37.3 lbs
Weight Full	26.9 kg / 59.4 lbs

LOW LEVEL SWITCH

[OPTIONS]

Material	316L stainless steel
Rating	SPDT 3A @ 125 Vac, 2A @ 30 Vdc (normally open / closed)
Diaphragm	316 stainless steel < 200psi
Set Point	Factory set to 1.5 bar ± 10%, adjustable set point (decreasing)

ELECTRICAL

[OPTIONS]

Power Requirements* ²	[Refer to valve options table]
Power Consumption	10.1 W (AC), 11.5 W (DC) maximum
Electrical Connections	5 x screw terminals for 0.75-1.5 mm ²
Cable Gland Entry	1 x M20

Model Code Ordering Information: MEWS5-LA-[Valve Code]

VALVE OPTIONS			
Voltage (V)	Frequency (Hz)	Operating Temperature* ³	Valve Code
24	DC	-25°C to +70°C	024D2
24	50	-25°C to +70°C	02452
24	50/60	-10°C to +70°C	024A1
24	50/60	-25°C to +70°C	024A2
115	50/60	-10°C to +70°C	115A1
230	50/60	-10°C to +70°C	230A1

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MANUFACTURER OF

CAMERA STATIONS

Reference Number:
06\DS 0599 Iss 2