

CRYOSWITCH-MED

- Real time monitoring measures and pressures through LCD display with backlight
- Alarm signaling through blinking visual and acoustic indicators with recovery time programmable by the user
- Programming by encoder with button integrated
- Alarm acoustic signal with acknowledge pushbutton on the front panel
- Solenoid valves status indication on front panel
- Automatic switch over functions for empty tank, extra consumption or fault storage, through integrated solenoid valves
- Recovery function for gaseous fraction produced by the evaporation of the backup tank, through integrated solenoid valves
- Alarm or shut-off function for low temperature detection on operating tank supply
- Set points programmable by the user for minimum level, high and low operating tank pressures, high and low supply output pressure, low III° source pressure
- Proprietary network protocol CRIONet
- Remote programming and reception of update messages through CrioSystemSupervisor platform (MOD-COM modem required)
- Auxiliary output switch for external cumulative alarm indicator or hooter
- Visual and acoustic indication about alarm status in accordance with European standard ISO 7396-1 and EN 60601-1-8



Supply and recovery switch over system for cryogenic tanks with medical oxygen Ph. Eur.

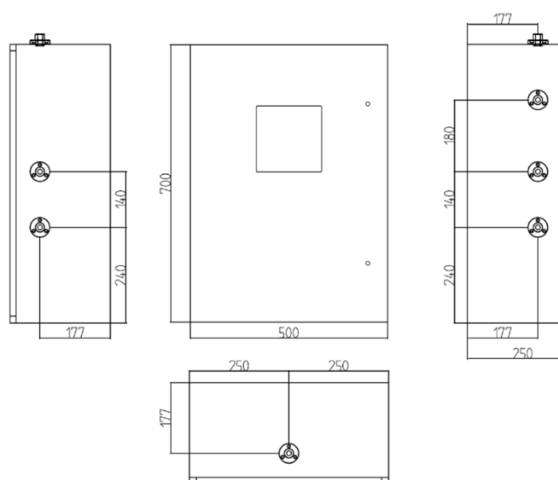
CRYOGENICS

TECHNICAL SPECIFICATIONS

Power supply	230 Vac 50/60Hz, P max 50 VA, fuse 1 A
Flow range	Continuous 20m ³ /h
Operating pressure	16 bar max.
Visual indication	Display 4 lines x 20 characters, backlight Operating alarm: yellow LED 20 x10 mm Emergency alarm: red LED high efficiency 20x10 mm Fail: red LED diam. 5 mm Communication: yellow LED diam. 5 mm
Alarm sound	Magnetic speaker, volume adjustable up to 95 dB @ 1 m
Input	-2 Inputs PT100 -2 Inputs tank pressure (4-20mA) -2 Inputs tank level (4-20mA) -1 Input supply output pressure (4-20mA) -1 Input 3rd source (4-20mA) -1 Input Power Down UPS (on-off)
Auxiliary output switch	1 relay contact, Vmax. 250 Vdc/Vac, Imax 100 mA, N.C. or N.O. operations
Pneumatic connections	2 F 3/8" NPT (gas phase output)

	2 F 3/8" NPT (recovery gas phase output) 1 F 3/8" NPT (3 rd source) 1 F 3/8" NPT (output supply)
Local network interface	Proprietary protocol CRIONet on insulated bidirectional RS485
Housing	Steel sheet white for wall mounting, dim. 500 x 700 x (p) 250 mm, waterproof IP55
Weight	45 kg
Operating temperature	-20...60° C
Reference standards and directives	93/42/EEC MED, 2014/30/EU EMC, 2014/35/EU LVD, EN 61000-6-1, EN 61000-6-3, EN60601-1 ISO 7396-1, EN 60601-1-8, RoHs 2011/65/EU CE 0425

DIMENSIONS



measures in mm

PRODUCT CODES

CODE	DESCRIPTION
0001-08-011	CryoSwitch-MED/ 1S: Supply and recovery switch over system for cryogenic tanks with medical oxygen Ph. Eur. Output pressure for 1° Stage. Protocol CRIONet. Medical version CE 0425
0001-08-012	CryoSwitch-MED /12S: Supply and recovery switch over system for cryogenic tanks with medical oxygen Ph. Eur., completed of 3rd source pressure regulator. Output pressure for 1° -2° Stage. Protocol CRIONet. Medical version CE 0425
0001-08-057	CryoKit 1+1 for CryoSwitch-MED: Kit for CryoSwitch-MED connection to 2 tanks consisting of: 2 stainless steel flexible hoses M3/8" NPT- F3/4" UNF with spring and 2 stainless steel flexible hoses M3/8" NPT- F7/8" UNF with spring. Accessory CE-MED Certificated
0001-08-058	CryoKit 2+2 for CryoSwitch-MED: Kit for CryoSwitch-MED connection to 2 tanks consisting of: 4 stainless steel flexible hoses M3/8" NPT- F3/4" UNF with spring + 4 stainless steel flexible hoses M3/8" NPT- F7/8" UNF with spring + 4 stainless steel flexible hoses M3/8" NPT- F7/8" UNF + 2 brass manifolds with 4 fitting M7/8" UNF-M3/8" NPT + 4 plugs M3/8" NPT + 2 stainless steel brackets for wall mounting. Accessory CE-MED Certificated
0001-08-060	Tank level indicator cable for CryoSwitch: Connection male/female IP68 with resin overmoulding. Cable length 2.5mt + 0,5mt