

ekorSYS units: protection, telemanagement & communication

ekorUCT

Compact remote control and automation unit



Compact unit for remote control and automation of Transformer Substations and Switching Substations.

- ekorUCT-M: wall-mounted unit.
- ekorUCT-S: unit for installation on top of Medium Voltage cubicles.

Most notable features of the ekorUCT unit:

- Independent of the number of cubicles to be controlled (fitted with integrated control). It facilitates subsequent extensions.
- Standard interconnections. It does not require wire hose.
- Commissioning without MV discharge.
- Factory-tested components.
- Web server.

APPLICATIONS

- Remote control and automation via integrated control:
 - Transformer Substations and Switching Substations
 - Second operation points
 - Remote management (SmartGrid)
- Sectors:
 - Public distribution (Utility)
 - Service sector
 - Industry
 - Infrastructures





Technical Characteristics			
Power supply	AC	[Vac]	230 +/-15%
	Insulation	[kV]	10
	Max. ekorUCT consumption	[W]	100
	Cubicle consumption	[W]	1.5 (load disconnect) 7 (circuit-breaker)
	Frequency	[Hz; Hz]	50; 60 +/-1%
Output power supply voltages		[Vdc; Vdc]	48; 12
Standalone operation		[A/h]	Batteries of 18
Communications	LAN protocols		MODBUS (RTU)
			PROCOME
			IEC -870-5-101
	WAN protocols		IEC -870-5-104
			MODBUS (RTU)
			Web server
Functions	Other proprietary protocols of the customer		
	Remote terminal		
	Communications		
	Uninterruptible power supply		
	Low Voltage insulation		



FEATURES

Single control box with all the elements for automation and remote control.

It consists of two differentiated compartments:

- Distribution compartment (RTU).
Houses the power supply and control elements.
 - Remote control unit (ekorCCP) (*)
 - Batteries and charger/rectifier
 - 10 kV insulation transformer
 - Protection miniature circuit-breakers
- Communications compartment (COMMS).
Houses the communication elements:
 - Space for communications equipment (**)

- ➔ (*) Option to include multiple remote units: Ormazabal's ekorCCP, SETIS, MRC-100, CAP/16, etc.
- ➔ (**) Equipment NOT supplied by default, only if specified by customer.



Mechanical Design			
Maximum dimensions (width x height x depth)	wall-mounted box	[mm]	584 x 877 x 320
	cubicle-mounted	[mm]	1096 x 288.5 x 465
Internal dimensions of the communications compartment	wall-mounted box (ekorUCT-M)	[mm]	570 x 170 x 280
	cubicle-mounted (ekorUCT-S)	[mm]	300 x 290 x 440
Weight		[kg]	80
External connections			Power supply from the LVB
			Installation alarms