

WBX Series **210**

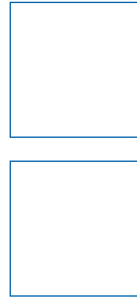
Moisture and dirt resistant enclosures for the convenient installation of ESP protectors and their CME kits

CME Series **211**

Combined Mounting and Earthing kits enable the quick and easy installation of a range of protectors by allowing them to be simultaneously mounted and earthed via their central earth studs

Accessories **212**

Spare and extended cable assemblies, replacement remote display unit, gas discharge tubes, fixing brackets, ESP SSI tester and mains tester



A range of moisture and dirt resistant enclosures for the convenient installation of ESP protectors and their associated CME kits. Enclosures have a grey base with either a see-through or grey (part number /G or /GS) lid

Features and benefits

- ✓ Tough polycarbonate enclosures (except ABS WBX 2/G)
- ✓ Weatherproof – with IP resistance to dirt and water of IP56 or more
- ✓ Clear lid enables easy visual inspection of the protectors visual status indication (WBX 3, WBX 4, WBX D4, WBX 8, WBX D8, WBX M2, WBX M4)
- ✓ Grey lid for applications not needing regular protector inspection (WBX 2/G, WBX 3/G, WBX 4/GS, WBX 8/GS and WBX 16/2/G)
- ✓ For external CCTV and other installations requiring added security the WBX 4/GS and WBX 8/GS are supplied with an opaque lid and special secure head screws (plus tool)
- ✓ Supplied complete with metal base (mounting) plate with pre-prepared mounting positions and fixing hardware for easy installation (except WBX 2/G which has a plain metal base)

Specification

If you've got use this enclosure
1 ESP 240 or 415/XXX/TNS or TNC protector, or single phase D1 series protector	WBX D4
1 ESP 415/XXX/TT protector, or three phase D1 series protector	WBX D8
1 single phase M1 series protector	WBX 3
1 three phase M1 series protector	WBX 4
1 ESP M2 series protector	WBX M2
1 ESP M4 series protector	WBX M4
1 CME 4 and associated protectors	WBX 4 or the secure WBX 4/GS
1 CME 8 and associated protectors	WBX 8 or the secure WBX 8/GS
1 or 2 CME 16 and associated protectors	WBX 16/2/G
1 or 2 single earth stud protectors	WBX 2/G
up to 3 single earth stud protectors	WBX 3/G
1 double earth stud protector	WBX 3/G

	WBX 2/G	WBX 3 WBX 3/G	WBX 4 WBX 4/GS	WBX D4	WBX 8 WBX 8/GS	WBX D8	WBX 16/2/G	WBX M2	WBX M4
Weight - unit	0.45kg	0.5kg	0.9kg	0.4kg	1.3kg	0.55kg	6.4kg	1.9kg	2.2kg
- packaged	0.5kg	0.55kg	0.95kg	0.45kg	1.35kg	0.6kg	7.6kg	2.3kg	3.0kg
Dimensions									
Length - internal	150mm	222mm	225mm	–	225mm	–	460mm	254mm	254mm
- external	160mm	230mm	235mm	200mm	235mm	200mm	474mm	280mm	280mm
Width - internal	110mm	72mm	150mm	–	225mm	–	380mm	254mm	254mm
- external	120mm	80mm	160mm	123mm	235mm	195mm	396mm	280mm	280mm
Depth - internal	71mm	79mm	100mm	–	100mm	–	120mm	115mm	165mm
- external	90mm	85mm	117mm	112mm	117mm	112mm	128mm	130mm	180mm
Fixing centres (mm)	148 x 90mm	210 x 60	215 x 140	140 centrally	215 x 215	140 x 88	380 x 310	254 x 254	254 x 254
IP rating	IP66	IP67	IP66	IP65	IP66	IP65	IP56	IP67	IP67

Application

Use WBX enclosures when your ESP protector(s) can't be installed within the existing equipment panel or enclosure and for added protection in damp and dirty environments.

Installation

The protector(s), or CME kit, are mounted on the metal base plate, which in turn mounts in the enclosure.



For added security, /GS versions (e.g. WBX 4/GS) are supplied with an opaque lid and optional secure head screws (plus tool)



Features and benefits

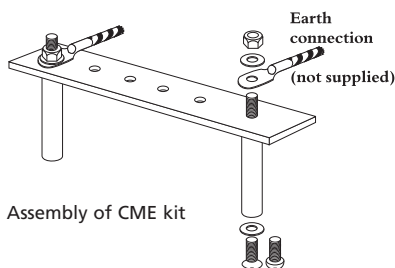
- ✓ Enables quick and easy installation of protectors for added convenience
- ✓ Speedy installation of groups of protectors saves time and money
- ✓ Individual protectors can be changed without needing to remove others
- ✓ Sturdy construction
- ✓ Supplied with a choice of flat and round ended fixing screws to suit your application



CME kits allow the simultaneous mounting and earthing of protectors through their central earth stud.
Once installed, single protectors can be changed without removing others

Installation

The earth bar is supported by a series of mounting pillars (which are fixed to the cubicle or box base). Protectors are attached to the CME's earth bar via their earth stud(s) and earthed with shared connections to earth. We suggest one earth connection per mounting pillar.



Accessories

Enclosures suitable for a CME 4 and its associated protectors (WBX 4/GS), CME 8 and protectors (WBX 8/GS) or one or two CME 16 and protectors (WBX 16/2/G).



Enables groups of protectors to be simultaneously mounted and earthed via their earth stud. Suitable for installing protectors with one or two earth studs on their top face. Available with 4, 8, 16 and 32 mounting holes.

Application

Use CME kits to simultaneously mount and earth groups of single and double earth stud protectors. Each single earth stud protector requires one CME mounting position and each double earth stud protector requires two CME mounting positions.

- ✓ Single earth stud protectors are

ESP 06D	ESP 06E	ESP 06H	ESP CCTV/B
ESP 15D	ESP 15E	ESP 15H	ESP CCTV/T
ESP 30D	ESP 30E	ESP 30H	
ESP 50D	ESP 50E	ESP 50H	
ESP 110D	ESP 110E	ESP 110H	
ESP TN	ESP RTD.		
- ✓ Double earth stud protectors are

ESP 120-5A	ESP 120-16A	ESP ThinNet
ESP 240-5A	ESP 240-16A	ESP ThickNet
ESP 277-5A	ESP 277-16A.	

Once you know how many CME mounting positions you require choose a CME kit to suit:

- ✓ CME 4 has 4 mounting positions
- ✓ CME 8 has 8 mounting positions
- ✓ CME 16 has 16 mounting positions
- ✓ CME 32 has 32 mounting positions.

Specification

	CME 4	CME 8	CME 16	CME 32
Weight	0.1kg	0.15kg	0.3kg	0.6kg
Dimensions				

ESP RLA-1, ESP RLA-4, ESP RLA HD-1, ESP RLA HD-4



Cable assemblies for connecting display units to suitable three phase protectors.

Description	Length	Part No.
Cable assembly for connecting ESP Remote Display Unit (ESP RDU) to ESP M1R, M2R and M4R series	1m	ESP RLA-1
Cable assembly for connecting ESP Remote Display Unit (ESP RDU) to ESP M1R, M2R and M4R series	4m	ESP RLA-4
Cable assembly for connecting display unit to three phase ESP XXX D1R/LED or ESP XXX D1R/LCD protectors	1m	ESP RLA HD-1
Cable assembly for connecting display unit to three phase ESP XXX D1R/LED or ESP XXX D1R/LCD protectors	4m	ESP RLA HD-4

ESP RDU



For use with the ESP M1R, M2R and M4R series. See pages 162 – 163.

Description	Part No.
Remote Display Unit	ESP RDU

ESP CAT5e/UTP-1



Cable assembly with RJ45 connections for the ESP ISDN/RJ45-4/8 or ESP ISDN/RJ45-8/8 plug-in ISDN protectors for use if the standard 0.25m cable is insufficient. See pages 188 – 189.

Description	Length	Part No.
Cable assembly with RJ45 connections	1m	ESP CAT5e/UTP-1

ESP RF BK1, ESP RF BK2



Use with any ESP RF protector to assist installation. See pages 200 – 203.

Description	Part No.
Straight Mounting plate	ESP RF BK1
90° Mounting plate	ESP RF BK2

ESP RF GDT-x



Replacement Gas Discharge Tubes for use with standard RF protectors. See pages 200 – 201.

Replacement Gas Discharge Tube for use with the ESP RF 111A11, ESP RF AA1A11 and ESP RF 441A11 protectors (pages 202 – 203).

Description	Voltage	Part No.
Gas Discharge Tube	90V	ESP RF GDT-1
Gas Discharge Tube	150V	ESP RF GDT-2
Gas Discharge Tube	230V	ESP RF GDT-3
Gas Discharge Tube	350V	ESP RF GDT-4
Gas Discharge Tube	470V	ESP RF GDT-5
Gas Discharge Tube	600V	ESP RF GDT-6

Description	GDT Voltage	Part No.
Gas Discharge Tube	600V	ESP RF GDT-A

ESP PTE002



Use to test the ESP SSI/M protector. See pages 206 – 207.

ESP PTE002 has Network Rail Approval PA05/02216. NRS PADS reference 094/020033.

Annual calibration is required, which is processed as ESP PTE002/CAL

Description	Part No.
SSI Portable Tester	ESP PTE002

ESP PTE003 NEW



Mains tester for checking wiring and voltages of 3 phase 415V power supplies, with visual and audible indication. Simple and safe to use – just plug into a standard 5 pin 16A 3 phase socket. Contact Furse for details.

Description	Part No.
3 phase mains tester	ESP PTE003