

MAIN SWITCH BOX – MSB

The MSB is used for power distribution and makes power management easy. It is designed be fed with 380-480 V AC 3-phase without requiring an external transformer. The MSB leaves room for customer adaptations and the E-stop functionality can be upgraded from class 3 to class 4. Each MSB supplies up to 6 controllers with power.

MAIN SWITCH BOX II – MSB II

Main Switch Box II exists in two versions, 30 Amps and 60 Amps.

DISTRIBUTION BOX – DB

The DB provides the same functionality as the MSB except for the main switch and is used as a complement to the MSB for systems with more than 6 channels.

DISTRIBUTION BOX II – DB II

DB II is needed when MSB II is used.

GENERAL BOX – GB

An empty DB, suitable for external system devices.



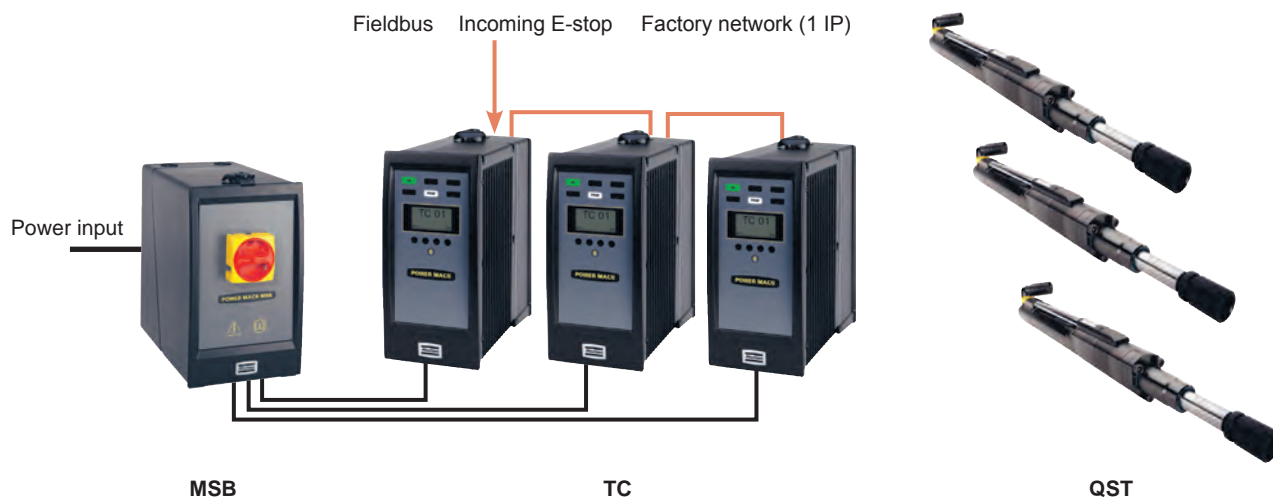
Model	Ordering No.
MSB	
Main switch box (Max 6 channels)	8435 5660 00
Main switch box II, 30 amps (Max 6 channels)	8435 5660 30
Main switch box II, 60 amps (Max 6 channels)	8435 5660 60
DB	
Distribution box (Max 6 channels) + Power cable 1800 mm	8435 6560 50
Distribution box II	8435 5660 10
GB	
General box	4222 1249 85

System Guide

Controllers

EASY-TO-BUILD SYSTEM

 Power cables	4222 1248 xx	Ethernet cable	4222 1246 xx
 E-Stop cable	4222 1247 xx	Motor cable	4220 3799 xx



With the PowerMACS 4000 controller, multiple-spindle systems are easy to configure. Simply refer to the system ordering table to see which components you need.

SYSTEM ORDERING TABLE FOR A SYSTEM WITH ONE STATION

No. of spindles	Number of					tool cables	System cable kit ^a	No. of spindles	Number of					tool cables	System cable kit ^a
	TC-P	TC-S	MSB	DB					TC-P	TC-S	MSB	DB			
1	1	0	1	0		1	1	10	1	9	1	1	10	1	
2	1	1	1	0		2	1	11	1	10	1	1	11	1	
3	1	2	1	0		3	1	12	1	11	1	1	12	1	
4	1	3	1	0		4	1	13	1	12	1	2	13	1	
5	1	4	1	0		5	1	14	1	13	1	2	14	1	
6	1	5	1	0		6	1	15	1	14	1	2	15	1	
7	1	6	1	1		7	1	16	1	15	1	2	16	1	
8	1	7	1	1		8	1	17	1	16	1	2	17	1	
9	1	8	1	1		9	1	18	1	17	1	2	18	1	

^a See system cable kits below.

SYSTEM CABLE KIT

No. of spindles	Power cable			Ethernet cable			E-stop cable		Ethernet switch incl. Backplate 4222 0982 90	Ordering No. ^b
	1350 mm 4222 1248 13	1650 mm 4222 1248 16	1950 mm 4222 1248 19	1 m 4222 1246 01	2 m 4222 1246 02	3 m 4222 1246 03	1200 mm 4222 1247 12	3000 mm 4222 1247 30		
1	1	-	-	-	-	-	-	-	-	8435 6560 01
2	2	-	-	1	-	-	1	-	-	8435 6560 02
3	2	1	-	1	1	-	1	1	-	8435 6560 03
4	2	2	-	1	2	-	2	1	-	8435 6560 04
5	2	2	1	1	3	-	3	1	-	8435 6560 05
6	2	2	2	4	1	-	4	1	1	8435 6560 06
7	4	3	-	5	1	-	5	1	1	8435 6560 07
8	4	4	-	6	1	-	6	1	1	8435 6560 08
9	4	3	2	4	1	3	7	1	1	8435 6560 09
10	4	4	2	5	1	3	8	1	2	8435 6560 10
11	4	4	3	6	1	3	9	1	2	8435 6560 11
12	4	4	4	7	1	3	10	1	2	8435 6560 12
13	5	4	4	7	1	4	10	2	2	8435 6560 13
14	6	4	4	8	1	4	11	2	3	8435 6560 14
15	6	5	4	9	1	4	12	2	3	8435 6560 15
16	6	6	4	10	1	4	13	2	3	8435 6560 16
17	6	6	5	10	2	4	14	2	3	8435 6560 17
18	6	6	6	11	2	4	15	2	4	8435 6560 18

^b Based on Atlas Copco suggested set-up.

Optional Accessories

ETHERNET CABLES

Length	Ordering No.
0.5 m	4222 1246 00
1 m	4222 1246 01
2 m	4222 1246 02
3 m	4222 1246 03
5 m	4222 1246 05
10 m	4222 1246 10
15 m	4222 1246 15



Ethernet cable

E-STOP CABLES AND TERMINATION

Components	Length	Ordering No.
E-stop cable	1200 mm	4222 1247 12
E-stop cable	3000 mm	4222 1247 30
E-stop termination		4222 0755 00



E-stop cable

POWER CABLES BETWEEN MSB AND TC

Suitable for	Length	Ordering No.
TC1-TC2, TC7-TC8, TC13-TC14	1350 mm	4222 1248 13
TC3-TC4, TC9-TC10, TC15-TC16	1650 mm	4222 1248 16
TC5-TC6, TC11-TC12, TC17-TC18	1950 mm	4222 1248 19
For longer distances	5 m	4222 1248 50
	10 m	4222 1370 10
	15 m	4222 1370 15
	20 m	4222 1370 20



Power cable between MSB and TC

INDICATOR BOX AND CABLE

Model	Ordering No.
Indicator box	8435 3010 04
Indicator box cable to PM4K, 1 m	4243 0278 80
Open end cable 5 m	4243 0281 05
Extension cable 3 m	4243 0282 03
5 m	4243 0282 05
10 m	4243 0282 10
15 m	4243 0282 15
20 m	4243 0282 20
25 m	4243 0282 25



Indicator box

OPERATOR HANDLE

Model	Ordering No.
Operator handle (ball joint/handle)	
- front/plastic	8435 3030 00
- front/rubber	8435 3030 01
- rear/plastic	8435 3030 02
- rear/rubber	8435 3030 03



Operator handle