



Data Sheet

M Series 100.D.101.05

Wall Brackets, empty Synchronizing Wall Brackets

WA 96 WA 144





Application

The wall brackets **WA 96/144** are being supplied either empty or equipped as synchronizing wall bracket.

The wall brackets can hold three each panel meters of the standard square form 96 mm x 96 mm resp. 144 mm x 144 mm with a mounting depth up to 150 mm resp. 190 mm.

Synchronizing Wall Brackets

Voltage, frequency and phase balance have to coincide when connecting an alternator to the supply system or to a second alternator, when they are to be operated in parallel.

Four types of indicating meters are available

for synchronizing application:

(see data sheet No.)

- Synchronoscope SY 96/144 S (080.D.101.##) or - Null Voltmeter WQ 96/144 /0S (022.D.101.##) - Dual Voltmeter WQ 96/144 /2S (023.D.101.##) and - Dual Frequency Meter FQ 96/144 /2 (031.D.101.##)

Three each indicating meters can be combined to a synchronizing group in a wall bracket WA 96/144:

Synchronoscope or Null Voltmeter
Dual Voltmeter
Dual Frequency Meter

Synchronoscope or Null Voltmeter
Dual Voltmeter
Dual Frequency Meter

Mechanical Data

form A wall bracket upright, bottom support form B wall bracket suspended, support on top

form C wall bracket upright,

support on top and bottom (WA 144 only)

form D bench-type bracket, support on bottom

All bracket forms have a swivel range of 180°.

material

case pressed steel support AL-die casting

colour gray (similar to RAL 7037) fixing by 4 each screws ø10 mm dimensions see dimensional drawings

weight approx. WA 96–A/B/D WA 144–A/B/D WA 144–C (wall bracket empty) 4.5 kg 6.5 kg 7.5 kg

Synchronizing Wall Brackets

weight approx. WA 96–A/B/D WA 144–A/B/D WA 144–C (wall bracket equipped) 7 kg 10 kg 11 kg

connection rubber-insulated cable approx. 1 m,

5 x 1 mm²

enclosure code IP 52

additional data refer to data sheets

relating to sole instruments

Rules and Standards

DIN EN 60 529 Enclosure codes by housings (IP-code)

DIN EN 61 010-1 Safety requirements for electrical measuring,

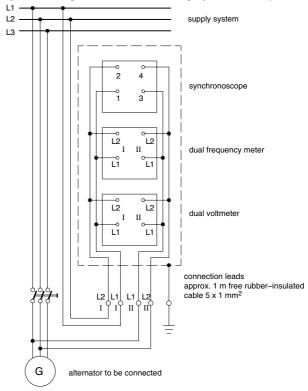
control and laboratory equipment Part 1: General requirements

DIN IEC 61 554 Panel mounted equipment -

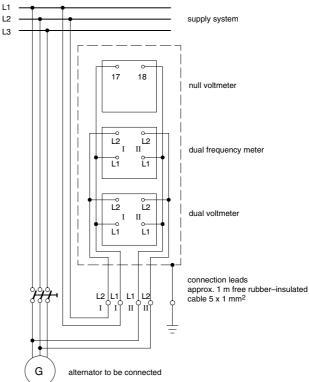
Electrical measuring instruments – Dimensions for panel mounting

Connections

Synchronizing Wall Bracket including Synchronoscope



Synchronizing Wall Bracket including Null Voltmeter







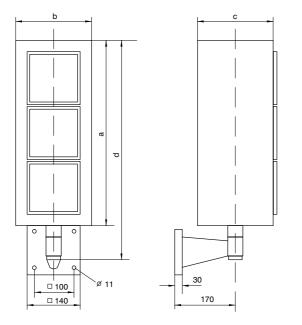
Data Sheet

Wall Brackets, empty Synchronizing Wall Brackets

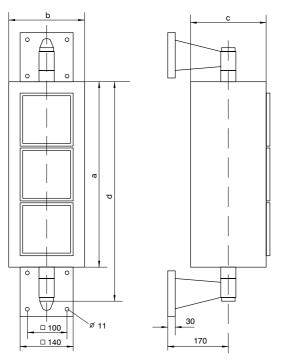
Dimensions

form A, B

(form B: support will be mounted on upper side of wall bracket)

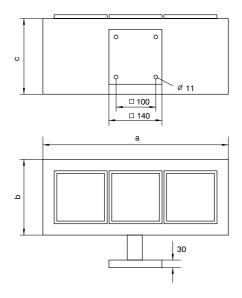


form C (WA 144 only)



dimensions (in mm)	WA 96-A/B	WA 144-A/ B/ C
a a	345	487
b	150	200
C	160	200
d	414	556

form D



dimensions (in mm)	WA 96-D	WA 144-D
а	345	487
b	150	200
С	160	200

Ordering Information

type WA	Wall Bracket empty
dimensions 96 144	accommodating instruments 96 mm x 96 mm accommodating instruments 144 mm x 144 mm
form A B C	bracket upright, bottom support ¹) bracket suspended, support on top bracket upright, support on top and bottom ²) bench–type bracket, bottom support

¹⁾ standard 2) WA 144 only

ordering example 1

Wall Bracket WA 144-B, empty

type WA	Synchronizing Wall Brad	Synchronizing Wall Bracket		
dimensions				
96	accommodating instruments			
	96 mm x 96 mm	96 mm x 96 mm		
144		accommodating instruments		
	144 mm x 144 mm	144 mm x 144 mm		
form				
Α		bracket upright, bottom support 1)		
В		bracket suspended, support on top		
С		bracket upright,		
•		support on top and bottom ²)		
D	bench-type bracket, bottom support			
combination		motor to data offortion		
SY 96/144 S	synchronoscope	080.D.101.##		
WQ 96/144 /2S	dual voltmeter	023.D.101.##		
FQ 96/144/2	dual frequency meter	031.D.101.##		
or		000 D 404 ""		
WQ 96/144 /0S	null voltmeter	022.D.101.##		
WQ 96/144 /2S	dual voltmeter	023.D.101.##		
FQ 96/144/2	dual frequency meter	031.D.101.##		
assembly	mount and connect instruments, install connection leads			

¹⁾ Standard 2) WA 144 only

ordering example 2

Synchronizing Wall Bracket WA 96–A comprising instrument combination:

Synchronoscope SY 96 S, Dual Voltmeter WQ 96 /2S and

Dual Frequency Meter FQ 96 /2, 2x 21 reeds

rated voltage 400 V, rated frequency 50 Hz, installed and wired

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- specifications subject to change without notice; date of issue 12/10 -

