

# Bargraph OCB557

## for RS485 signals

### Owner's Manual

**ORBIT CONTROLS AG**  
Zürcherstrasse 137  
CH-8952 Schlieren/ZH  
**Tel: + 41 44 730 2753**  
**Fax: + 41 44 730 2783**

info@orbitcontrols.ch  
www.orbitcontrols.ch

## Vor dem Einschalten

Überzeugen Sie sich, ob Ihre Sendung das richtige Gerät Orbit Controls Modell OCB557 beinhaltet, einschliesslich einer Betriebsanleitung OCB557.

Vor dem Einschalten des Gerätes überprüfen Sie die Anschlüsse und die Versorgungsspannung. Ein falsch angeschlossenes Gerät kann beschädigt werden und damit auch die mitverbundene Folgeelektronik. Für falsche Handhabung wird jede Haftung abgelehnt.

### ZU BEACHTEN

Dieses Gerät wurde sorgfältig verpackt. Falls es bei Ihnen in beschädigtem Zustand eintrifft, benachrichtigen Sie unverzüglich den Orbit Controls Kundendienst (Tel: +41 44 730 2753 oder Fax: +41 44 730 2783) und nehmen Sie einen Schadenrapport auf, welchen Sie auch von der Transportgesellschaft unterschreiben lassen. Bewahren Sie bitte das Verpackungsmaterial für eventuelle Reklamationen auf.

## Unpacking Instructions

Remove the Packing List and verify that you have received all equipment, including the following:

- Orbit Controls Model OCB557.
- Operator's Manual OCB557.

If you have any questions about the shipment, please call the Orbit Controls Customer Service Department.

### NOTE

*When you receive the shipment, inspect the container and equipment for signs of damage. Note any evidence of rough handling in transit. Immediately report any damage to the Orbit Controls customer service, Phone +41 44 730 2753 or Fax +41 44 730 2783 and to the shipping agent.*

*The carrier will not honour damage claims unless all shipping material is saved for inspection. After examining and removing contents, save packing material and carton in event the reshipment is necessary.*

# Programmable Bargraph OCB557



- ✓ Input RS485
- ✓ Displays dimming from Protocol
- ✓ 50 Bargraph Segments, 3 Digit Display
- ✓ Supply 230VAC or 24VDC
- ✓ Heart beat indication

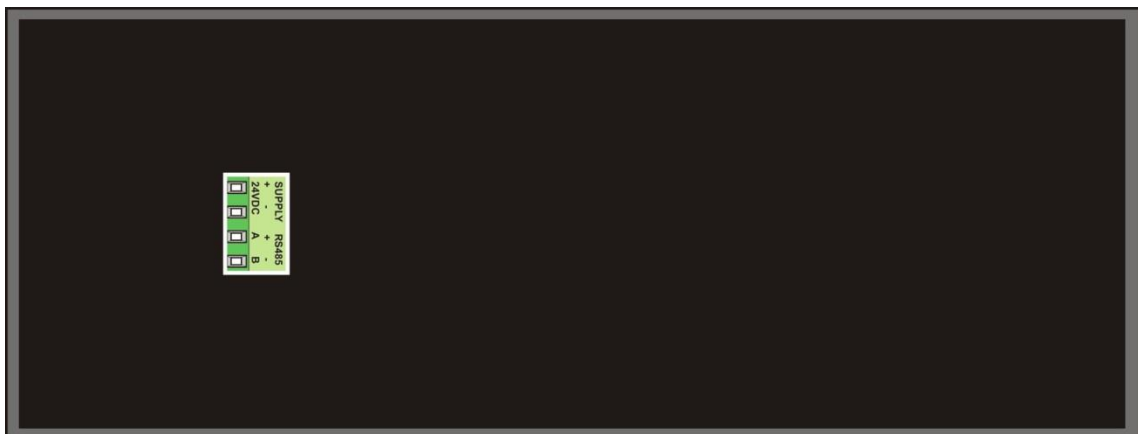
**OCB557** is a digital controller with one Bargraph and a three digit numerical Display. The controller is key programmable and permits connection to RS485 signals. The intensity of both displays can be controlled from the data protocol or firmly set with internal keys in Menu.

The digital display is free scalable in menu and permits a resolution of 999 counts with selectable decimal point. In the measuring mode the display follows the input data. In the programming mode it shows the parameters. The decimal point and the sign can be set from the protocol.

**The Menu** is accessible with keys at the main board and contains the selection of the Baud Rate, the Address of the data port, the display Intensity and the Scaling of the bargraph related to the digital display.

The controller is enclosed in an Aluminum Cabinet and supplied from 24VDC or 115/230VAC. The programming keys are at the main board and are accessible after removing the rear panel.

## TERMINALS – rear view



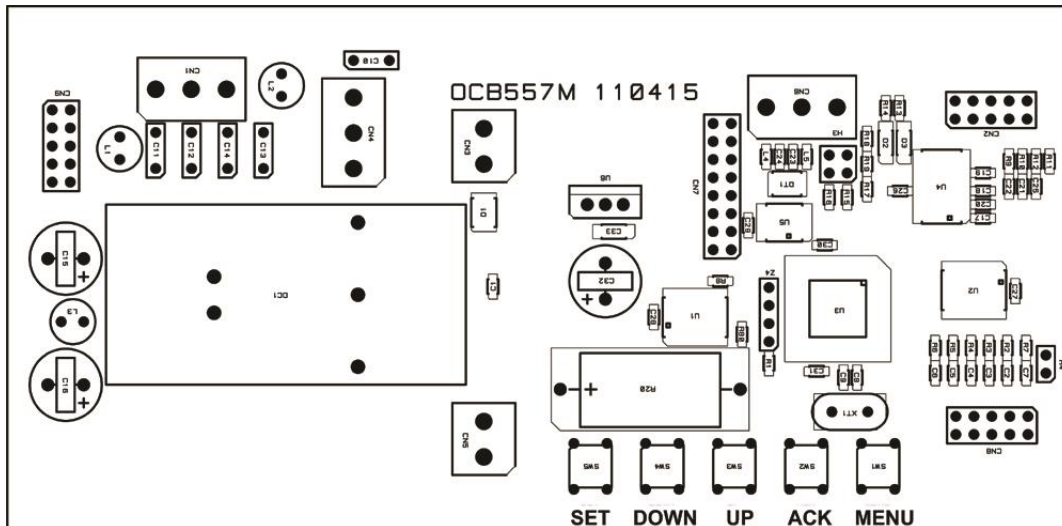
## SPECIFICATIONS

Displays:	Bargraph:	253 x 38mm, 100 red segments.
	Accuracy:	± 1 Segment.
	Digital Display:	3 digits 0-999 with decimal points. Digit size 20mm.
	Accuracy:	absolute
	Heart Beat:	Flashing decimal point at each data conversion
Input:	RS485	Baud Rate: 1200 -19200 bd Address: 0-250
Supply:	18-36VDC/15W.	
Cabinet:	110x366x82mm (WxHxD). Panel cut-out 110x366mm	
Terminals:	Four terminals pluggable connector.	

## CONTROL KEYS

The keys MENU, ACK, UP, DOWN and SET are accessible inside the instrument after the rear cover has been removed. They permit setting of the Baud Rate, the Address, the Intensity of displays and the Scaling of the digital display. The intensity can also be set from the data protocol.

An optional keyboard can be plugged into the RS485 D-SUB for setting of the menu parameters without opening of the rear cover, see page 5.



## MENU STEPS

The key *MENU* opens the Menu and permits scrolling the menu steps at the display. The required parameter will be confirmed with *ACK*. The flashing digit will be positioned with *ACK* and selected with *UP* or *DOWN*. With the key *SET* the display returns into the measuring mode.

Key	Display	Function
MENU	bAU	Baud Rate
ACK	XXX	Baud Rate value: 1200 to 19200 bd
MENU	rSA	RS485 Address
ACK	XXX	Address number: 0 to 250
MENU	Int	Display intensity
ACK	LXX	Intensity in steps: 0,1,2,5,10,20 ... 90,100%
MENU	bL	Display value for Bar = Null
ACK	XXX	Selection -99 ... 999
MENU	bHI	Display value for Bar = 100%.
ACK	XXX	Selection -99 ... 999
MENU	---	Measuring Mode

## BURST TEST and RECOMENDED GROUNDING

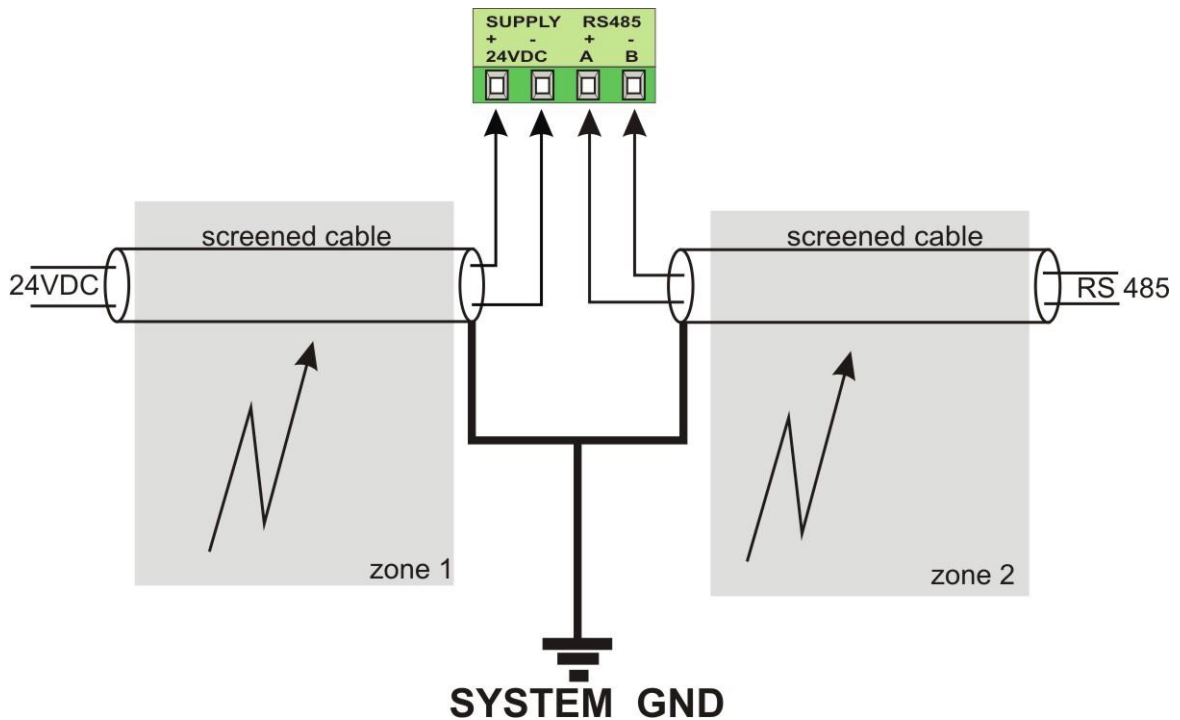
**Tester:** EM Tester Type UCS 500M2, SN: 0499-41  
**E.U.T.:** OCB557, SN: 2110500, Supply 24VDC  
 Mode: Set LO = 000, Set HI = 100  
 Input: RS485, Address 00, 9600bd  
 Display: 100  
 Bargraph: 100%

**Test Conditions Zone 1**  
 According to: IEC 61000-4-4 level 3      2000V  
                   EN 50052-2 generic        2000V

**Antenna Injections Zone 2**  
 Burst                    Voltage 2500V,      f = 5 kHz  
    fr = 300 ms  
    td = 15 ms      coupling +/-

DC powered instrument are tested with power cord and signal input in Zone 2 at conditions shown in “Antenna Injections” above.

### Test Set - Up



### Test Results

Zone 1: Digital Display and Bargraph without change  
 Zone 2: Digital Display and Bargraph without change