



## Product information

# COM 485

## Communication converter

### WMC (current loop) – RS232



# Hardware description

## Main Characteristics

The COM485 is a microprocessor based communication converter. It is used to convert the WMC (Quest Wind Mill Controller) current loop system to standard RS485. The COM485 also includes overvoltage protection (lightening protection) system.

The COM485-4 is used for 4-wire and COM485-2 is used for 2-wire system.

With the 2 wire system all control systems can hear everything and with 4-wire system they only hear the controlling master (preferred).

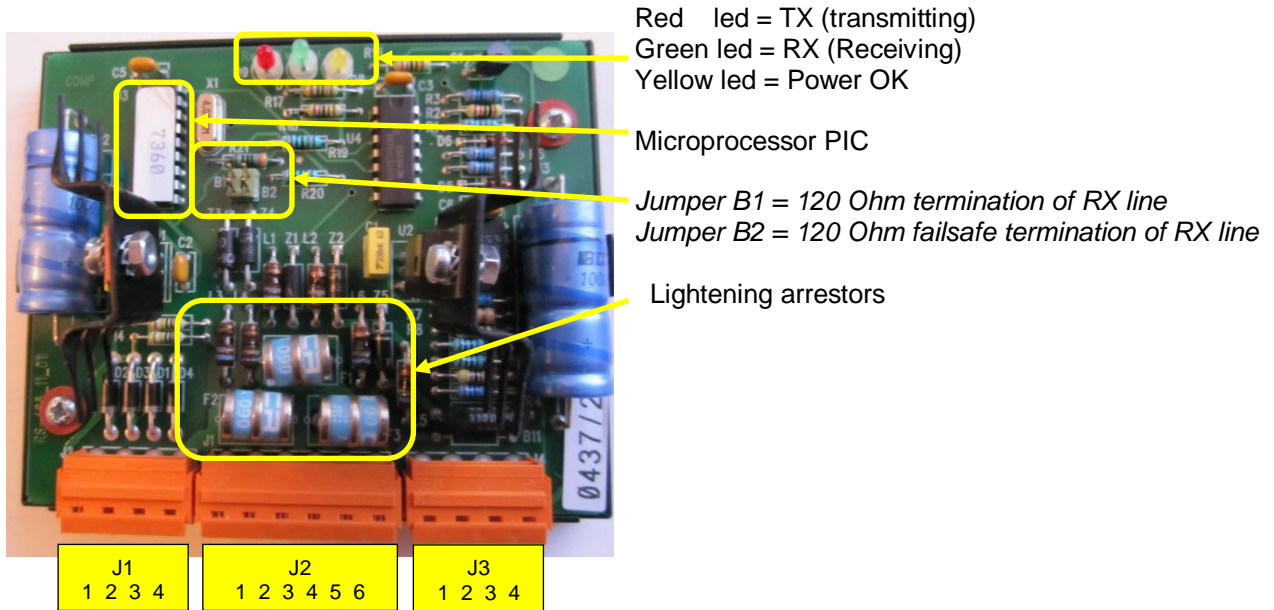
For troubleshooting it is possible to remove the cap and monitor the 3 LED's on the PCB for status information.

## Technical data

General	Data	Remarks
Product name	COM485	
Description	Communication converter	Quest current loop – RS485
Version -2	2 wire system	
Version -4	4 wire system	
Product revision	2	
Microprocessor type	PIC	
<b>Terminals</b>		
J1- 4 pin male (Weidmuller BLZ type)		
J2- 6 pin male (Weidmuller BLZ type)		
J3- 4 pin male (Weidmuller BLZ type)		
<b>Power supply</b>		
Voltage	24V DC	20 – 30V DC
Current	60 mA	Max 200 mA
<b>Termination</b>		
Jumper B1	120 Ohm	IN for the COM485 at the end of the line
Jumper B2	120 Ohm	IN for the COM485 at the end of the line
<b>Mounting</b>		
Housing	Plastic Box	
Length x Width x Height (mm)	105 x 96 x 60	
Weight (gram)		
Mounting method	TS 35 DIN rail	
<b>Labels</b>		
Product ID	Rear side	COM485 - X Rev Y X=Version, Y=revision
Product serial number	Rear side	XYZZZ in numbers

# COM485 - 4 rev 2

## Components



Connection	COM485
J1-1	Power supply +/-
J1-2	Power supply +/-
J1-3	Protective GND
J1-4	Screen
J2-1	RS485 R+
J2-2	RS485 R-
J2-3	RS485 T+
J2-4	RS485 T-
J2-5	24V +
J2-6	24V -
J3-1	WMC (closest to display)
J3-2	WMC
J3-3	WMC
J3-4	WMC (closest to exp. Conn.)