RS2 - RS4

The RS2 output option permits the communication between a ALPHA or BETA instrument and a master device via RS232C interface.
The option is supplied with the following accessories :

- The RS2 card
- A 2m cable RJ11 with telephone plug

Software configuration permits selection of the instrument address, transmission rate (1200 to 19200 baud), communications protocol (standard, ISO 1745 or MODBUS RTU).

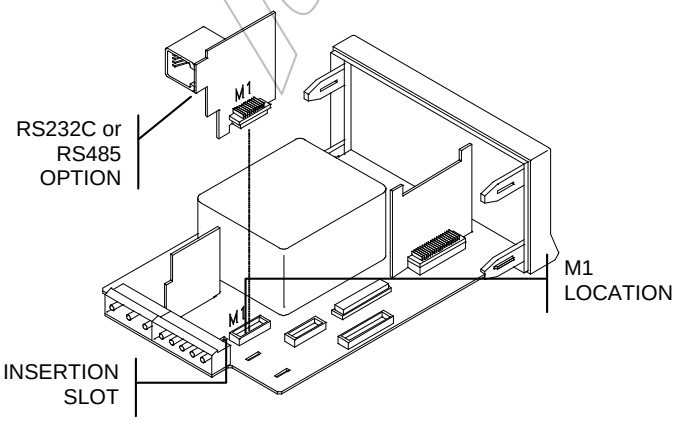
The RS4 option allows the connection of up to 31 KOSMOS instruments to a master device via the RS485 interface.
The option is supplied with the following accessories :

- The RS4 card
- A 2m cable RJ12 with telephone plug at each end.
- A spliter to accept two cables with RJ12 plug.

Software configuration permits selection of the instrument address (0 to 99), transmission rate (1200 to 19200 baud), communications protocol (standard, ISO 1745 or MODBUS).

INSTALLING THE CARD

The RS2 and RS4 option is supplied independently with its own instructions manual and connection accessories.
The card must be installed in the M1 location.
It may be convenient to solder the card to the main board making use of the copper tracks on both sides of the card pin and around the main board hole on its solder side.

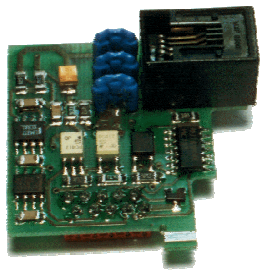


CONNECTIONS

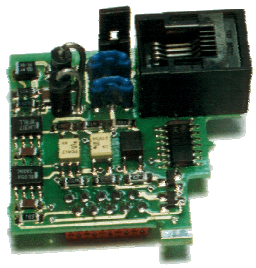
RS2: CN5
PIN 4 = GND
PIN 3 = RxD
PIN 2 = TxD
PIN 1 = RTS

RS4: CN5
PIN 6 = -
PIN 5 = GND
PIN 4 = A (TxD/RxD)
PIN 3 = B (TxD/RxD)
PIN 2 = Not connected
PIN 1 = -

RS2 OPTION



RS4 OPTION



FUNCTIONAL DESCRIPTION

The communication between the instrument and the master device is performed via the serial link in half-duplex mode.
The serial channel does only operate when the instrument is in the run mode and normally stands in data reception mode until reception of a message.
A valid data reception may cause the immediate execution of an action (tare, reset of the peak, valley or tare memories, modification of the setpoint values) or the transmission of a response from the instrument (setpoints, display, peak, valley or tare/offset values).

COMAND	FUNCTION	TYPE OF FUNCTION
V	Transmission of the valley value stored in the memory	Data request
P	Transmission of the peak value stored in the memory	
T	Transmission of the tare value (or offset) contained in the memory	
D	Transmission of the display value	
L1	Transmission of the setpoint 1 value	
L2	Transmission of the setpoint 2 value	
L3	Transmission of the setpoint 3 value	
L4	Transmission of the setpoint 4 value	
v	Reset of the valley memory	Orders
p	Reset of the peak memory	
r	Reset of the tare memory	
t	Tare the display	
M1	Modification of the setpoint 1	
M2	Modification of the setpoint 2	
M3	Modification of the setpoint 3	
M4	Modification of the setpoint 4	

ORDERING REFERENCE

RS232C serial output option ..... Ref..**RS2**
RS485 serial output option ..... Ref..**RS4**