

Chapter 20

ICMK-CS31 remote unit

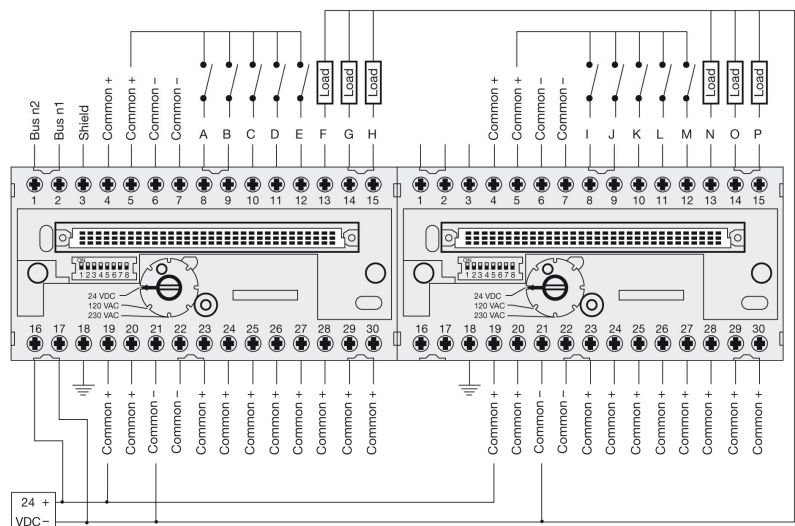
ICMK-CS31 remote unit

1.1 Presentation	3
1.1.1 General set-up rules	3
1.1.2 Cabling of CS31 bus	3
1.1.3 The front (see Figure)	5
1.2 General operating conditions	6
1.3 Technical specifications	8
1.4 Configuration operation with ICMK-CS31 module	9
1.4.1 Configuration inputs setup on ICMK-CS31 remote unit	9
1.4.2 Electrical connection of ICMK-CS31 remote unit	9
1.5 Procedure of replacement of 30 series CS31 remote units	10
1.5.1 Verification of hardware configuration on the existing ECZ plug in base: (for all remote units)	10
1.5.2 Verification of hardware configuration on the analog remote units:	13
1.5.3 Verification of hardware configuration on the 30 series analog input remote units: (Temperature type)	13
1.6 Replacement of CS31 binary input remote units:	14
1.6.1 ICSI 08 D1 Binary non isolated input unit with 8 input channels for 24 V d.c.	14
1.6.2 ICSI 08 E1 Binary isolated input unit with 8 input channels for 24 V d.c.	15
1.6.3 ICSI 16 D1 Binary non isolated input unit with 16 input channels for 24 V d.c.	16
1.6.4 ICSI 16 E1 Binary isolated input unit with 16 input channels for 24 V d.c.	17
1.7 Replacement of CS31 binary output remote units:	18
1.7.1 ICSO 08 R1 Binary output unit with 8 relay output channels 2 A	18
1.7.2 ICSO 08 Y1 Binary output unit with 8 transistor output channels 24 V d.c. 2 A	20
1.7.3 ICSO 16 N1 Binary output unit with 16 transistor output channels 24 V d.c. 0.5 A	21
1.8 Replacement of CS31 binary input and output remote units:	22
1.8.1 ICSK 20 F1 Binary input/output unit with 12 input channels for 24 V d.c. & 8 relay output channels.	22
1.8.2 ICSC 08 L1 Binary input/output unit with 8 channels as a 24 V d.c. input or transistor output	24
1.8.3 ICFC 16 L1 Binary input/output unit with 16 channels as 24 V d.c. input or transistor output.	25
1.8.4 ICSK 20 N1 Binary input/output unit with 12 input channels for 24 V d.c. & 8 transistor output channels.	26
1.9 Replacement of CS31 analog input remote units:	27
1.9.1 ICSE 08 A6 Analog input unit with 8 input channels 8 bits.	27
1.9.2 ICSE 08 B5 Analog input unit with 8 input channels 12 bits.	28
1.9.3 ICST 08 A8 Analog input unit with 8 input for Pt100 sensors 8 bits (2 or 3 wires). [-50°C ... +150°C]	29
1.9.4 ICST 08 A9 Analog input unit with 8 input for Pt100 sensors 8 bits (2 or 3 wires). [0°C ... +300°C]	31
1.9.5 ICST 08 A7 Analog input unit with 8 input for Pt100 sensors 8 bits (2 or 3 wires). [-20°C ... +30°C]	33
1.10 Replacement of CS31 analog output remote units:	35
1.10.1 ICSA 04 B5 Analog output unit with 4 current/voltage outputs channels 12 bits.	35
1.11 Replacement of CS31 analog input and output remote units:	36
1.11.1 ICSM 06 A6 Analog unit with 4 current/voltage inputs and 2 outputs current/voltage channels 8 bits.	36
1.12 Replacement of CS31 AC input remote units:	37
1.12.1 ICS 08 E3 Binary isolated input unit with 8 input channels for 120 Va.c.	37
ICS 08 E4 Binary isolated input unit with 8 input channels for 230 Va.c.	37
1.13 Reminder on AC31 Analog extensions use (XM06B5 or XE08B5)	39
1.14 References	45
1.15 Dimensions (in mm)	46

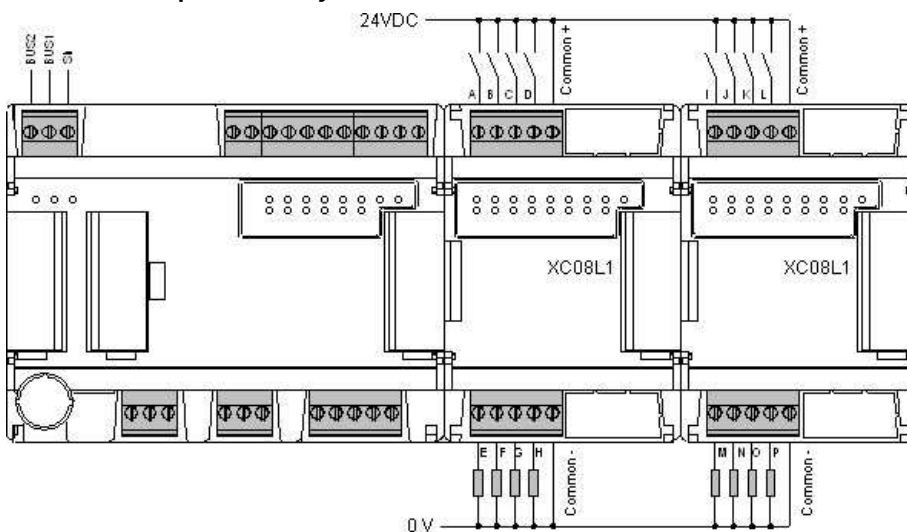
ICMK-CS31 remote unit

1.8.3 ICFC 16 L1 Binary input/output unit with 16 channels as 24 V d.c. input or 24 V d.c. 0.5 A transistor output. FPR 332 9101 R1062 24 V d.c.

1.8.3.1 Electrical connection



1.8.3.2 Replacement by ICSMK-CS31 + two extensions XC08L1



1.8.3.3 Configuration of inputs of ICMK-CS31

Option: Input 7 - (**IN7 = 1**) => to valid the highest zone of channels (xx.08 up to xx.15 and xx+1.00 up to xx+1.07)

1.8.3.4 Restriction or limit

Inputs: It is not possible to use the function block CS31CO to configure the option open circuit detection "cut wire" and to modify the delay of inputs (5ms).

Outputs: The fault indication "Power off" is not managed by ICMK-CS31. The detection level of short circuit is lower than with ICFC16L1 (0.5 A instead of 2 A). If the external 24 V d.c. power supply is not connected, the green led "Power" is blinking.

It is not possible to configure all channels in outputs, in order to allow using again the same address for an input unit, like with Dip switch N°1 on the plug-in base ECZ.