

ABB	Technical Notice		2NAA000105	
Responsible department: ELDS/ Service	Date: 22.10.2019	File No.: Replacement of obsolete MCU (1SCA022657R8610 & 1SCA022657R8950)	Revision index: B	
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INSUM 2

Replacement of obsolete MCU (1SCA022657R8610 & 1SCA022657R8950)

Revisions

Rev.	Description	Date / Department / Sign
A	Initial Release	07.05.2019/ ELDS/Service/HE
B	Add MCU2A02C0-4 2-63 A W/O VU variants	22.10.2019/ELDS /Service / HE

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Description of INSUM 2 MCU

Motor Control Unit (MCU) is an intelligent micro-processor motor protection and control relay used in the INSUM 2 system. 6 different variants of MCU is available in INSUM 2 as categorized by their internal CT ratio, availability of voltage monitoring unit and the range of power supply. The following table shows the different MCU available

Identification Number	Description
1SCA022657R8610	CT 0.1 ... 3.2 A Auxiliary power supply 24 V DC Code: MCU2A01C0-4
1SCA022657R8790	CT 0.1 ... 3.2 A Auxiliary power supply 24 V DC Voltage monitoring transformer only Measurement range 380 – 690 V AC Code: MCU2A01V2-4
1SCA022657R8950	CT 2.0 ... 63 A Auxiliary power supply 24 V DC Code: MCU2A02C0-4
1SCA022657R9090	CT 2.0 ... 63 A Auxiliary power supply 24 V DC Voltage monitoring transformer only Measurement range 380 – 690 V AC Code: MCU2A02V2-4
1SCA022657R9170	CT 0.1 ... 3.2 A Auxiliary power supply 230 V AC / 24 V DC Voltage measurement range 380 ... 690 V AC Code: MCU2AB1V2-4
1SCA022657R9250	CT 2.0 ... 63 A Auxiliary power supply 230 V AC / 24 V DC Voltage measurement range 380 ... 690 V AC Code: MCU2AB2V2-4

The MCU2A01C0-4 (1SCA022657R8610) and MCU2A02C0-4 (1SCA022657R8950) is no longer available to be purchased and has entered the obsolete stage in March 2019 and September 2019 respectively

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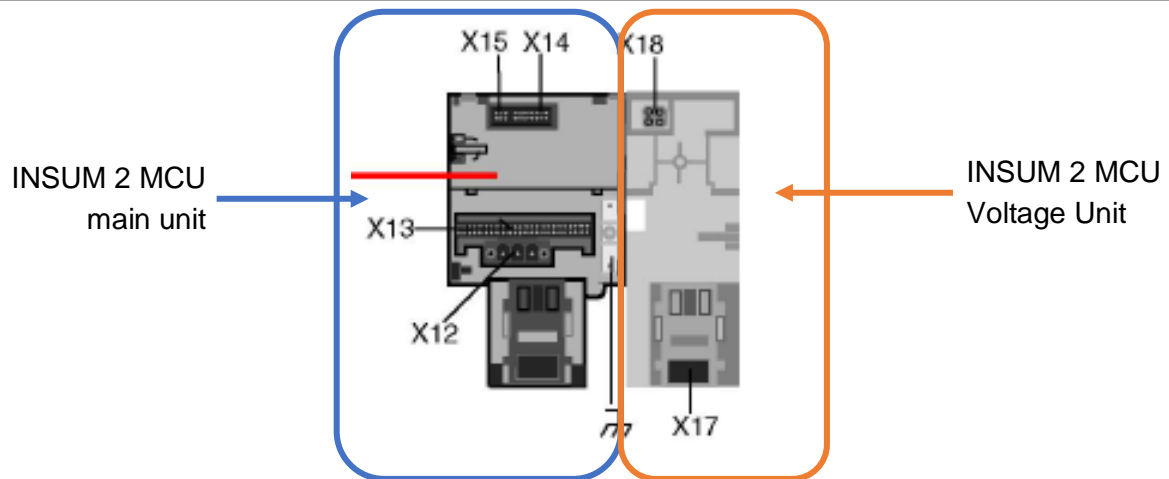


Figure 1 INSUM 2 MCU with VU Hardware

The voltage monitoring is handled in a separate hardware called as the voltage unit. The voltage unit has terminal X17 and X18 which is used for monitoring the voltage and power supply respectively.

For replacement of 1SCA022657R8610 (MCU2A01C0-4) and 1SCA022657R8950 (MCU2A02C0-4) , the 1SCA022657R8790 (MCU2A01V2-4) and 1SCA022657R9090 (MCU2A02V2-4) can be used respectively by not using/connecting the voltage unit.