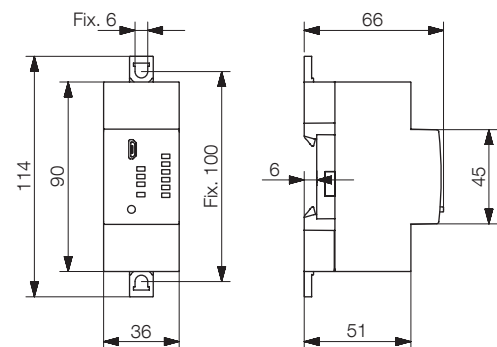
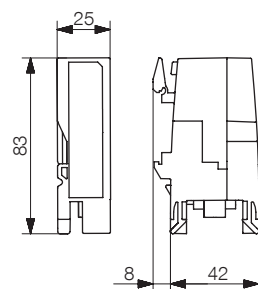


5 Dimensions

DIRIS Digiware R-60 Dimensions mm

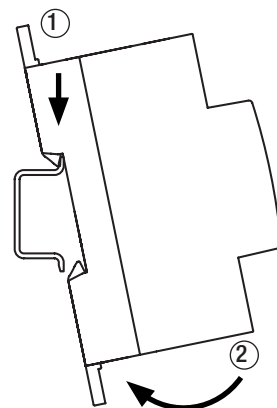
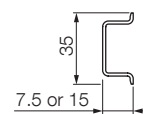


DIRIS Digiware T-10



6 DIN rail mounting

Dimensions mm



7 Technical characteristics

STANDARDS	
IEC 62020 - Residual Current Monitors (RCM)	Type A
IEC 60755 - Residual Current Devices (RCD)	Type A (§8.5)
IEC 61557-12 - Power metering and monitoring devices (PMD)	Overall performance class 0.5 for active power (with TE/ITR/TF)
COMMUNICATION CHARACTERISTICS	
RJ45 Digiware bus	1 x Input / 1 x Output
USB	Firmware upgrade via Product Upgrade Tool software Configuration via Easy Config System software
ENVIRONMENTAL CHARACTERISTICS	
Storage temperature	-20 ... +70°C (IEC 60068-2-1 / IEC 60068-2-2)
Operating temperature	-10 ... +55°C (IEC 60068-2-1 / IEC 60068-2-2)
Humidity	+25°C / 97% RH & +55°C / 93 % RH (IEC 60068-2-30)
Operating altitude	≤ 2000 m
Pollution degree	2
Protection class	IP 40 (front face)
Overvoltage category	CAT III

socomec
Innovative Power Solutions

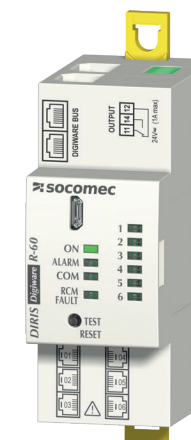


DIRIS Digiware RCM

POWER AND RESIDUAL CURRENT
MONITORING SYSTEM FOR TN-S
AND TT ELECTRICAL INSTALLATIONS



Full user
manual:
www.socomec.com/operating-instructions
www.socomec.com



Residual Current Monitoring device
DIRIS Digiware R-60
4829 0114

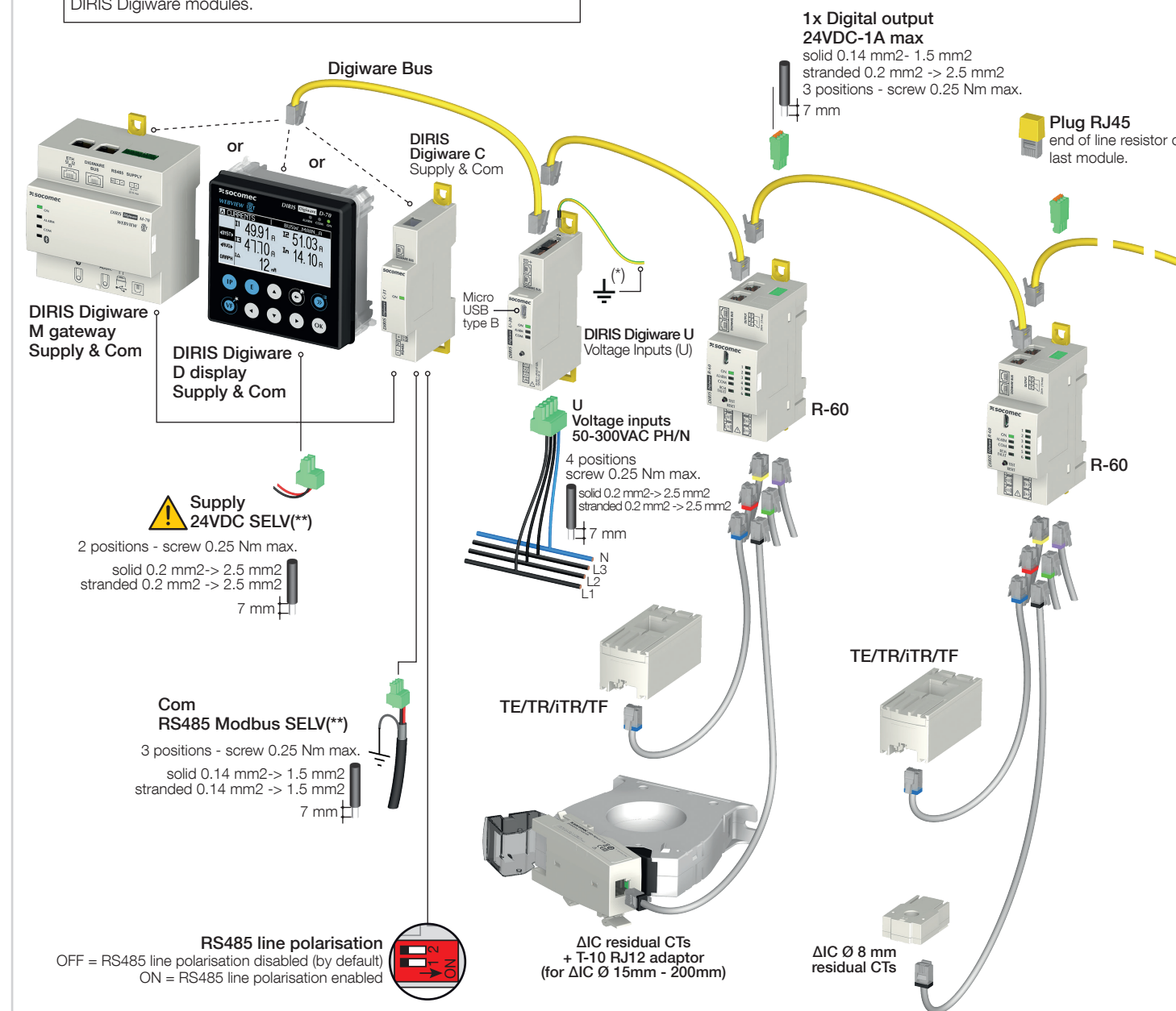


RJ12 residual CT adaptor
DIRIS Digiware T-10
4829 0620

1

Use **RJ45 Digiware Bus cables** (UTP RJ45 straight, twisted pairs, unshielded, AWG24, 300V, cat.III. rated, -20 / +70 °C) between all DIRIS Digiware modules.

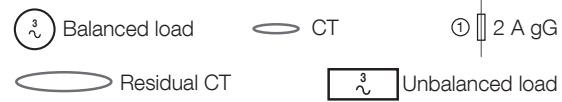
⚠ Do not connect **RJ12 sensor cable** to **RJ45 Digiware Bus connector** to avoid any risk of mechanical damage of this connector.



(*) Do not forget to connect earth to the DIRIS Digiware U module.
(**) Safety Extra Low Voltage

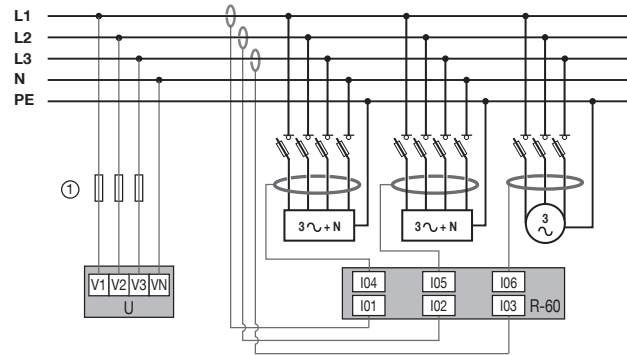
2 Main network and load connections

Each current input setting is individual and can be mixed (CT and/or residual CT).
See below some examples: (for full PMD configurations, refer to DIRIS Digiware Quickstart).



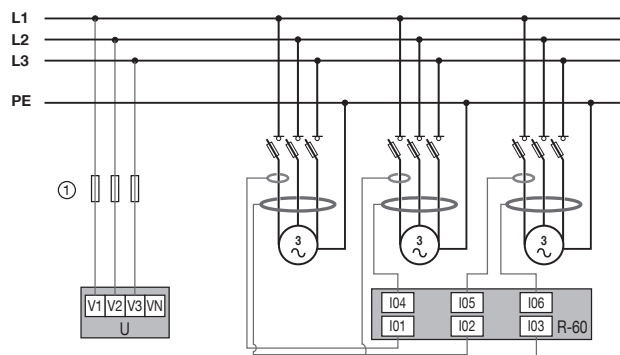
3 x 3-Ph loads

RCM (I_{Δ}) on each 3-Ph load
Load current monitoring on upstream L1, L2, L3



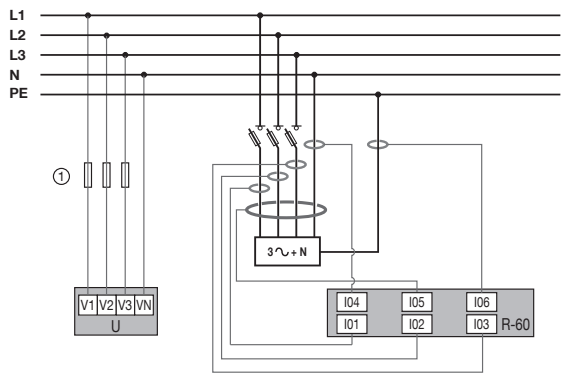
3 x 3-Ph loads

RCM (I_{Δ}) on each 3-Ph balanced load
Load current monitoring on each 3-Ph balanced load



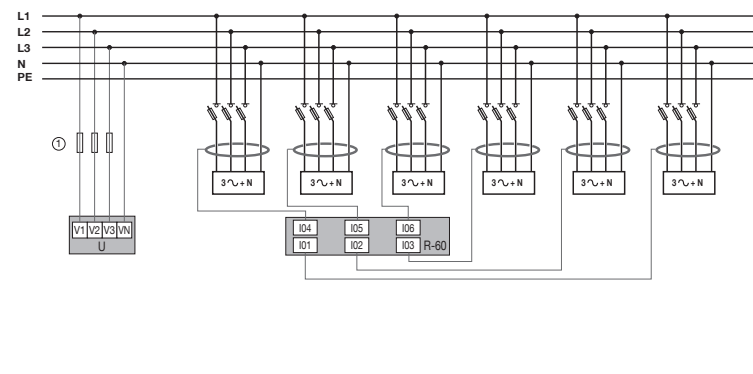
1 x 3-Ph loads

RCM (I_{Δ} + I_{PE})
Load current monitoring (L1, L2, L3, N)



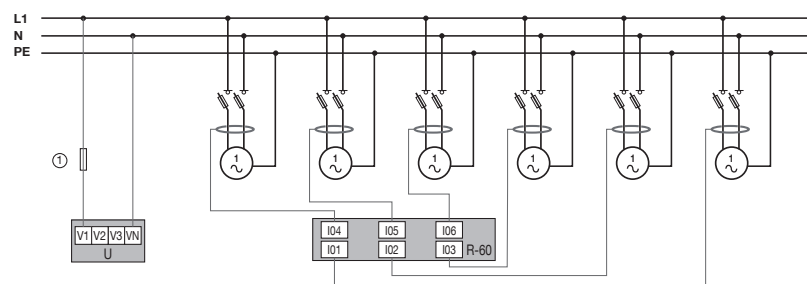
6 x 3-Ph loads

RCM (I_{Δ}) on each 3-Ph load



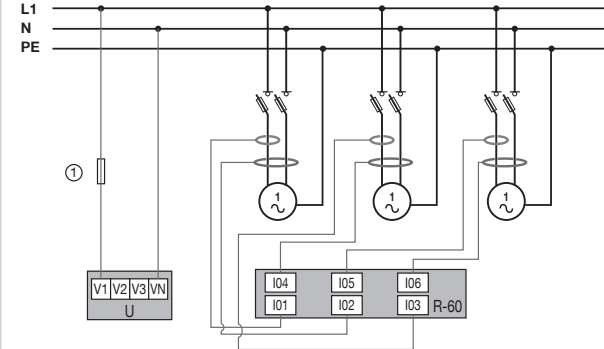
6 x 1-Ph loads

RCM (I_{Δ}) on each 1-Ph load



3 x 1-Ph loads

RCM (I_{Δ}) on each 1-Ph load
Load current monitoring on each 1-Ph load



When combining load current monitoring with Residual Current Monitoring for the same circuit, always use the first available I0x current inputs of the DIRIS Digiware R-60 to connect TE, TR/iTR and TF current sensors directly followed by residual CTs.

Example for 1 load: 3P+N – 3 CT

- I01 → Load current monitoring (I1)
- I02 → Load current monitoring (I2)
- I03 → Load current monitoring (I3)
- I04 → Residual Current Monitoring (I_{Δ})
- I05 → Residual Current Monitoring (I_{PE})

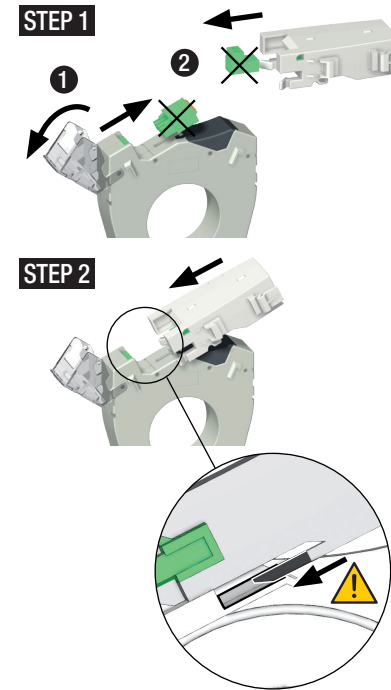
Example for 3 loads: 1P+N – 1 CT

- I01 → Load 1 current monitoring (I1)
- I02 → Residual Current Monitoring (I_{Δ})
- I03 → Load 2 current monitoring (I1)
- I04 → Residual Current Monitoring (I_{Δ})
- I05 → Load 3 current monitoring (I1)
- I06 → Residual Current Monitoring (I_{Δ})

3 Residual CT & T-10 adaptor

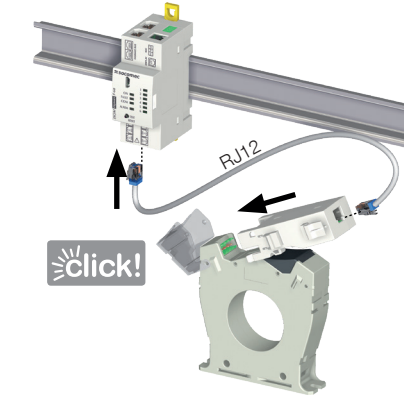
Important:

- Use only RJ12 SOCOMEC current Sensors cable (type RJ12 straight, twisted pairs, unshielded, 300V cat. III, rated, -40 / +85°C).
- It is recommended to mount all the current sensors with the same orientation.
- Always start with current sensor input 1.
- If T-10 is mounted on residual CT, do not mount T-10 on DIN rail.
- RJ12 max length: 10m

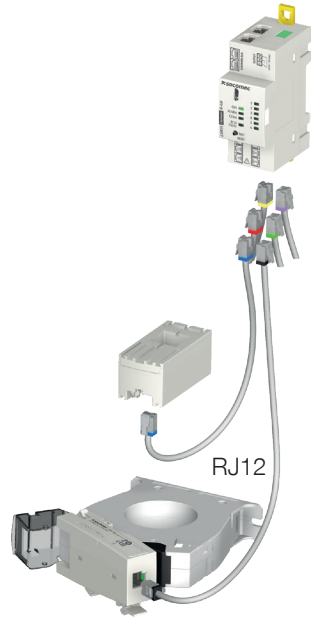


Connecting a T-10 adaptor on Δ IC residual CTs (Δ IC-30 and higher only)

⚠ No mounting of T-10 adaptor on busbars !

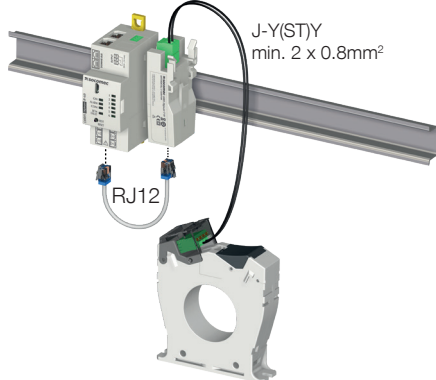


DIRIS Digiware R-60



Connecting a T-10 adaptor on an existing residual CT

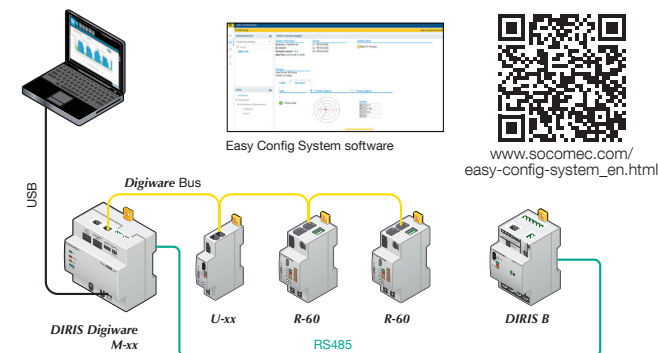
⚠ No mounting of T-10 adaptor on busbars !



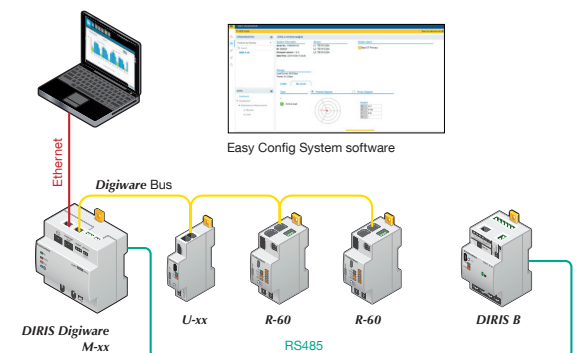
6x
TE/TR/iTR/TF current sensors and residual CT

4 Configuration

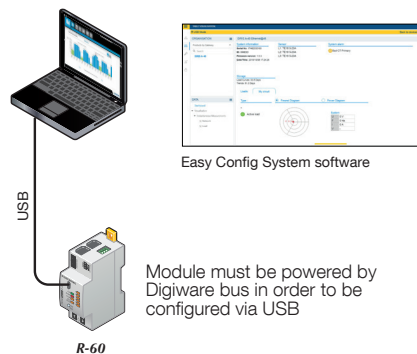
● USB through M-xx gateway or D-xx display



● Ethernet through M-xx gateway



● Direct USB to R-60 module



● Manual via D-xx display

