

AMIKON TECHNICAL DOCUMENTATION

Installation Instructions

ICS Triplex T8830C

Trusted analogue input termination

CHANNELS	SIGNALS	RESISTOR	FIELD POWER
40 analogue inputs	4-20 mA service	250 ohm / channel	18-32 Vdc

For qualified personnel only. This installation summary is not a substitute for the controlled manufacturer procedure, system safety plan or approved site isolation requirements.

01

BEFORE INSTALLATION

Identity and loop role	Confirm T8830C analogue FTA identity and the actual board revision.
Signal and module	Match the field signal, loop design and associated analogue input module.
Power and protection	Verify dual field supply feeds, polarity and per-loop fuses.
Cable and standby path	Check the matched input cable and SmartSlot generation.
Mounting and environment	Use the approved rail arrangement and manufacturer environmental limits.

02

PREPARATION AND BOUNDARIES

- Qualified personnel must apply the approved field isolation and ESD procedure. Do not treat removable fuses or module redundancy as permission for live FTA work.
- Use the complete OEM channel schematic and pin tables. The measurement resistor is part of the documented loop; do not replace it with the circuit from the digital-input FTA.

03
INSTALLATION AND COMMISSIONING

01	Record the full model, revision, analogue input module, cable identity and field-loop schedule.
02	Isolate affected field power and signals under the site maintenance plan and inspect the assembly using ESD precautions.
03	Mount on the approved TS32 or TS35 rail and maintain access to the field terminals and connectors.
04	Verify field polarity, individual fuses, channel mapping and the documented measurement circuit against the original drawing.
05	Connect the matched input cable at SK1 and confirm the actual SmartSlot arrangement. SK2 is not used for Version 2.
06	Restore service under the approved commissioning plan and check supply indication, loop readings and the associated module diagnostics.

04
SAFETY AND FINAL CHECKS

- The green indicator reports field power presence, not measurement accuracy or correct operation of all forty loops. Confirm each intended input value and diagnostic state.
- The 0.25 W figure in the legacy specification is explicitly for the LED power indicator. It is not a whole-installation power budget or the allowable power of each field loop.

05
OFFICIAL PROCEDURE

PD-T8830 Issue 7 | 40 Channel Analogue Input FTA

PDF pp. 1, 11-12: analogue interface and resistor circuit; pp. 13, 15: mounting and cables; pp. 17-22: terminals and ratings.

Manufacturer exact-model page - T8830C, 4-20 mA fused analogue input FTA

Independent Amikon reference, not an OEM manual. Use the complete manufacturer instructions matching the actual hardware and firmware. No manufacturer pages are reproduced.

AMIKON PRODUCT SUPPORT

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06 ORIGINAL REFERENCE SCHEMATICS

ICS Triplex T8830C | Documented installation context

Original Amikon illustration based on the linked OEM pages. Logical arrangement only; not to scale and not an electrical wiring or manufacturer installation drawing.

A | EQUIPMENT ARRANGEMENT



The field signal develops a voltage across the documented channel resistor. The associated input module interprets that voltage; the FTA does not replace the module.

Dual supplies feed the field through diodes and individual fuses. Verify the cable and SmartSlot generation; this logical illustration does not specify connector orientation.

B | CONFIGURATION BOUNDARY

Match the exact T8830C model, board revision, loop design, fuses and approved cable. Similar mounting and channel count do not establish interchangeability with a digital-input or non-incendive termination assembly. Verify the actual SmartSlot generation separately.

07 ORIGINAL MANUFACTURER DRAWING AND PROCEDURE LINKS

[FTA arrangement and analogue channel schematic - PDF page 11](#)

[DIN rail installation - PDF page 13](#)

[Field supply and terminal assignments - PDF page 17](#)

If the viewer ignores the page target, enter the stated PDF page manually. Retain the full manufacturer warnings and approved maintenance plan; this reference does not authorize live work.