

PRODUCT
DASHBOARD

T8442

Trusted TMR Speed Monitor

ICS Triplex T8442 is a Trusted triple modular redundant speed monitor for rotating machinery. It evaluates speed and acceleration inputs and supplies fault-tolerant shutdown outputs for overspeed protection.

BRAND

ICS Triplex

ORIGIN

USA

HS CODE

8537101190

SHIPS FROM

Xiamen, Fujian, China

Technical data dashboard

Trusted TMR Speed Monitor

SPEED GROUPS

3

INPUT ARCHITECTURE

3 TMR speed inputs per group

OUTPUT ARCHITECTURE

2 quad-redundant structures per group

SENSOR TYPES

Active and passive

INPUT FREQUENCY

Up to 30 kHz

INPUT DUTY CYCLE

20 to 80%

SPEED RESOLUTION

+/-1 RPM

SPEED ACCURACY

0.01% FS or 1 RPM, whichever is greater

DETECTION THRESHOLD

200 mV peak-to-peak

FIELD SUPPLY

18 to 32 Vdc

SYSTEM SUPPLY

20 to 32 Vdc

SYSTEM POWER

22 W at 24 Vdc

Application and support view

Four engineering use cases plus customer-oriented verification questions.

Turbine overspeed protection

Monitors shaft-speed inputs and commands the engineered shutdown path when the configured limit is exceeded.

Compressor train protection

Applies independent speed groups to rotating compressor drivers and their trip circuits.

Generator speed supervision

Tracks shaft frequency and acceleration during controlled start-up and operation.

Pump-driver acceleration monitoring

Supervises transient speed behavior where rapid acceleration must initiate protective action.

FAQ SNAPSHOT

1

What is the exact system role of T8442?

2

Which host, rack or carrier is required for T8442?

3

What wiring or connector checks apply to T8442?

4

How is T8442 configured for service?

Related-series navigator

Eight unique and verified Apter Power destinations for this dashboard.

01 T8151B Apter Power product page

02 T9852 Apter Power product page

03 T9100 Apter Power product page

04 T9193 Apter Power product page

05 MAI32MAD Apter Power product page

06 T8850C Apter Power product page

07 T8850 Apter Power product page

08 T8830 Apter Power product page

Related pages are navigation aids and are not used as manufacturer parameter sources.

Traceability and commissioning closeout

Confirm T8442 identity and revision, Trusted chassis, T8846 SIFTA, T8891 SOFTA, TC-801 cabling, probe type, tooth count, speed and acceleration settings, firmware/application versions, bypass status and full trip proof test before commissioning.

OFFICIAL MANUFACTURER SOURCE

Trusted TMR Speed Monitor

ICSTT-RM276I-EN-P (PD-T8442) Issue 10

ENGINEERING RELEASE NOTE

Install T8442 with the approved T8846 SIFTA, T8891 SOFTA and TC-801 field interface cable, then configure each speed group for its probe type and toothed-wheel data. Validate direction, frequency response, trip setpoints and every shutdown output using controlled rotation or signal simulation.

APTER POWER SALES TEAM

WHATSAPP / PHONE
+86 180 3023 5313

EMAIL
sales13@apterpower.com

WEBSITE
www.apterpower.com



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