DGPT2 MILLENIUM CABINET · CONTROL & SUPERVISION

DGPT2 Transformer Protection Control & SCADA Supervision System

Smart protection for your transformers.

The CROUZET Millenium controller replaces KT1 and most auxiliary relays. MV and LV trips keep their dedicated wired path. The result: a clearer cabinet, easier to test and replicate, with no compromise on protection.



1 controller CROUZET Millenium	**4** sensors DG · P · T1 · T2 directly connected	**7I / 2O** spare for future changes	**24** VDC with built-in battery back-up

THE PROBLEM

The conventional DGPT2 cabinet: limits you know well.

The protection is reliable. The burden comes from the wiring: one relay and one timer per service function.

Complex, bulky wiring

KT1 + K1 to K5: each service function takes one relay and one dedicated link in the door harness.

No fault memory

A mains failure clears the relay states. Diagnosis after an incident becomes impossible.

Not expandable

Adding a function (test, summary, supervision) requires a new relay and new wiring.

Closed program, heavy maintenance

Full dependence on the supplier, more failure points and longer troubleshooting.

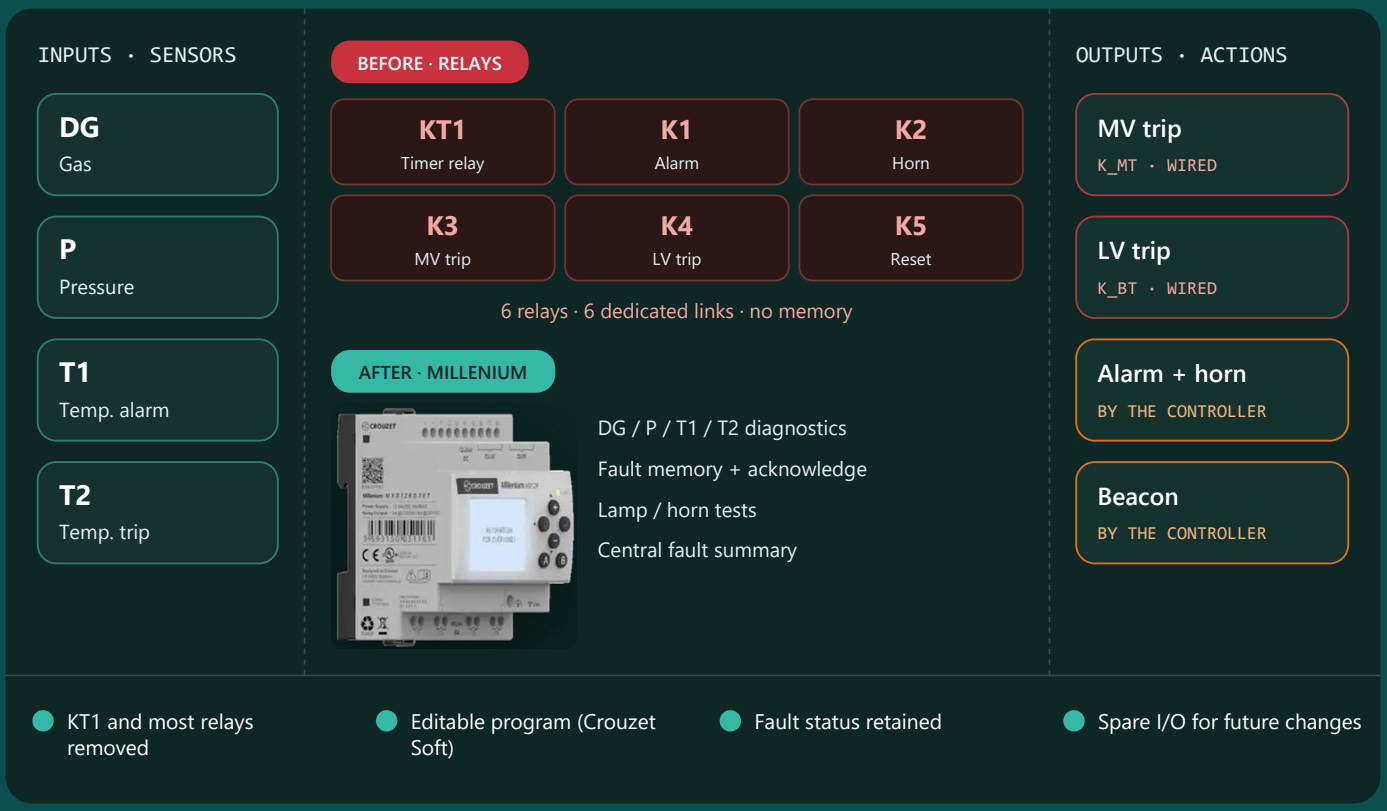
SPECIFICATIONS

Part number	MP-DGPT2
Manufacturer	MEA PULSE
Controller	CROUZET Millenium MXD12RU1ET + Millenium Digital Expansion MXR16D7
Power supply	CROUZET IPS24-240W, 24 VDC, 10 A, with battery back-up (2 × 12 V)
Protection	Schneider modular circuit breakers at the top of the cabinet
Inputs	DG, P, T1, T2: direct connection on a labelled terminal block
Outputs	MV / LV trips through dedicated relays K_MT / K_BT; alarm, horn, beacon through the controller
Spare I/O	7 inputs and 2 outputs available
Programming	Crouzet Soft (free software), program supplied and editable

OUR SOLUTION

Automate the service, not the critical protection.

CROUZET Millenium MXD12RU1ET with the Millenium Digital Expansion MXR16D7: the operating logic becomes a program. P and T2 still trip without depending on a controller cycle.



WHAT THE CONTROLLER ADDS

Six new functions, with no extra wiring.

01

Fault and alert memory

The fault status is kept even after a mains failure: reliable diagnosis at all times.

02

Central acknowledge and reset

A single software command replaces scattered reset buttons and relays.

03

Built-in tests

Lamp test, horn test and alarm test programmed directly, with no extra wiring.

04

Single fault summary

One common fault signal, ready for supervision and remote reporting.

05

Spare I/O

7 inputs and 2 outputs remain available for future functions without changing the cabinet.

06

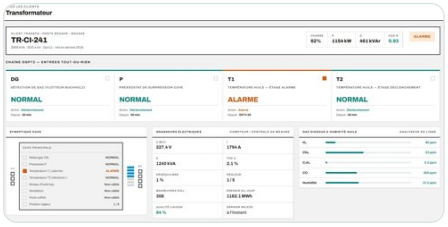
Standardisation

Architecture that can be replicated across DGPT2 cabinets. Program editable in Crouzet Soft, free software.

CONTROL & SUPERVISION

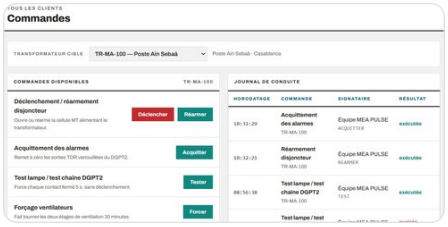
Your whole transformer fleet, on one screen.

The Millenium fault summary reports to the MEA PULSE platform: DGPT2 chain status, electrical values, dissolved gas, signed remote commands and a multi-country fleet map.



Transformer view

- DGPT2 chain: DG, P, T1, T2 with action and duration
- Tank diagram and tap changer position
- Load, P, Q, cos φ, THD, daily energy
- Dissolved gas and oil moisture



Remote control

- MV circuit breaker trip / reset
- Alarm acknowledge and DGPT2 chain test
- Fan forcing and load shedding
- Time-stamped, signed operating log



Multi-site view

- Interactive map of substations in Africa and the Middle East
- Grouping by status: normal, alarm, fault
- Breakdown by country, sites and current faults
- Direct access to each transformer

UNDER THE HOOD · BUILT BY MEA PULSE

Technical architecture.

CROUZET and Schneider industrial components, labelled wiring, marked terminals.



1 CROUZET Millenium controller
MXD12RU1ET + MXR16D7 extension, expandable with modules.

2 CROUZET IPS24-240W power supply
24 VDC, 10 A, with battery back-up (2 × 12 V) to keep memory and program.

3 Schneider protection
Modular circuit breakers at the top of the cabinet.

4 Inputs: DG, P, T1, T2
Gas, pressure and temperature sensors: direct connection on a labelled terminal block.

5 Front panel lights and buttons
Temperature faults 1st / 2nd threshold, horn stop, acknowledge, test.

6 Alarm, horn and beacon outputs
Driven and stored by the controller. MV/LV trips go through the dedicated relays K_MT / K_BT.

For a demonstration or a quote, contact MEA PULSE

272, Boulevard Dammam, Technopark Californie, Casablanca, Morocco