

GRID MONITORING RELAY

INOTEL's GMR series products are multi-functional network monitoring (Loss of Mains) relays located between the electricity network and the power generation plant.

By constantly monitoring the city grid, GMR separates the power plant and the electrical grid within a specified period of time in case of any voltage or frequency disruption that may occur, and ensures that the electricity generation facility is reactivated when the system returns to its nominal value.

GENERAL

Operating Temperature	-25°C...+60°C
Storage Temperature	-30°C...+80°C
Protection Class	IP30
Supply Voltage	18 - 36VDC
Assembly	DIN Rail

DIMENSIONS

Height x Width x Depth	86 x 105 x 57mm
Weight	250 gr

CONNECTION INTERFACES

RS485	1 port (galvanic isolation)
Relay Output	2 ports (10A@230Vac)
Analog Input	1 port (3 L-N voltage measurement) (30-410 Vrms with 1% accuracy)
Digital Input	4 ports 24 Vdc (optical isolation)

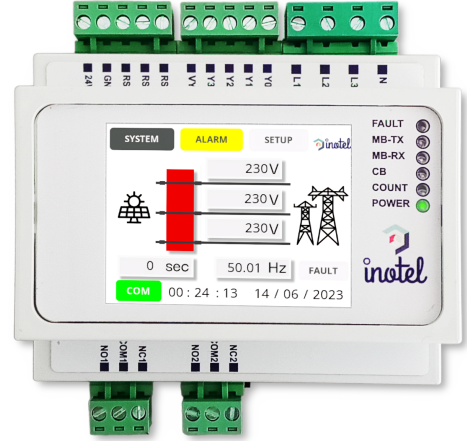
MEASUREMENT RANGE

(L1, L2, L3 - N)	0 – 410 Vac
(L1, L2, L3)	0 – 580 Vac
(L - N)	0 – 410 Vac
Frequency	40 – 60 Hz

AREAS OF USE

Solar PV Plants
Industrial Facilities
Wind Turbines
Hydroelectric Power Plants

GMR100



PROTECTION FUNCTIONS

27U Undervoltage
59 Overvoltage
81U Under frequency
81O Over frequency
81R Rate of change of frequency (ROCOF)
BF Breaker failure
74TCS Trip circuit supervision
ARF Automatic Reclosure

HMI TOUCH PAD & LED INDICATORS

Screen	2.8" TFT-LCD Touch Panel
Menus	System, Alarm, Setup
Functions	Setting protection and communication parameters Real-time recording & monitoring alarms
LEDs	Power, communication, error and positions information

TESTING & CERTIFICATION

Compatibility Tests	TS EN 61000-6-2:2019
	TS EN 61000-6-4:2020
	TS EN 50178:2003
	TS EN 60255:2014
	IEC 61010-1
	G98 - 1
	G99 - 1
	VDE AR-N 4105:2018

