

Smart control. Simplified.

For Precision Timing, Monitoring, and Automation.



Modular electronic devices

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We supply and support automation, switchgear, drives, motor control, AC and DC motors, and hazardous-area and industrial signalling products, sourced from leading manufacturers worldwide.

Our focus is on solving the toughest challenges with solutions that deliver long-term efficiency and value, backed by strong nationwide technical support.

STATS & NUMBERS



Global Brands

Partnerships with trusted **global brands** to deliver innovative and reliable industrial solutions.



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PRODUCT CATEGORIES



Motors Control & Drives:

High-performance solutions for precise and reliable motion control.



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Robust signalling systems for safety and communication.



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Solutions to optimise energy efficiency and reliability.



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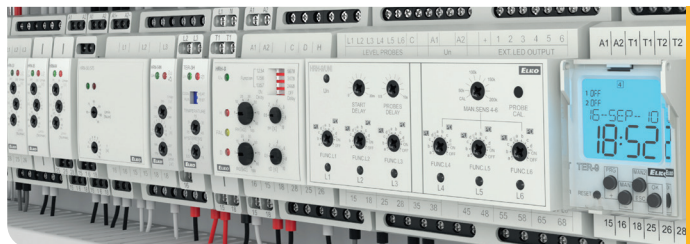


Modular electronic devices

Relays and time switches

ELKO EP is a global leader in automation solutions, specialising in relays, wireless, and IoT products for residential, commercial, and industrial use. The core range covers single- and multifunction time relays, digital and analogue time switches, thermostats, socket time relays, voltage and current monitoring relays, and staircase switches.

This selection provides versatile solutions for timing, automation, control, and protection across residential, commercial, and industrial applications.



Single-function, special time relays DIN

Reliable DIN-mounted relays designed for dedicated timing functions, such as delay, cyclic, or pulse control. Perfect for simple automation and control across various applications.



Multifunction time relays DIN

Flexible DIN-mounted relays offering multiple selectable timing modes, ideal for a wide range of automation tasks in industrial and building environments.



Digital Time switches

Advanced time switches, available in digital or analogue versions, for precise and programmable control of time-based automation processes.



Thermostats / hygrostats

Devices for accurate monitoring and regulation of temperature or humidity, ensuring optimal environmental conditions.



Socket time relays (PLUG-IN)

Plug-in relays designed for easy installation and replacement, suitable for versatile timing control in automation systems.



Voltage / Current relays

Monitoring relays for voltage and current, providing protection and reliability for electrical circuits and equipment.

Function	Description of function	Certification	Applications
on applying supply voltage:		EAC	Timers
A On delay	relay remains open and only closes after preset time period.		
B Interval On	relay closes for preset time then resets/opens.		
C Flasher - (Off first)	equal repeating (starting with selectable Off time first) repeats until supply is removed.		
D Flasher - (On first)	equal repeating (starting with selectable On time first) repeats until supply is removed.	CE	Voltage relays
E Off delay	relay remains open, closing a control contact activates the relay which remains closed but only starts the time period after release of the control contact, if the control contact is closed during timing, the time is reset and the relay remains closed.		
F Single shot	relay remains open, closing of control contact activates the relay for the preset time period, closing the control contact during timing is ignored.		
G Single shot (falling edge)	relay remains open even on closing of control contact, opening the control contact activates the relay for the preset time period, closing the control contact during timing is ignored.		
H On/Off delay	relay remains open, closing of control contact starts the preset delay period whereafter the relay closes, opening the control contact closes the relay once again for the delay period, if the control contact is opened during timing the relay remains closed for another delay period opening when timing is complete, any change of control contact status during timing is ignored.	cULus	Current relays
I Memory latch	relay remains open, closing a control contact activates the relay until receipt of another pulse which opens the relay, each time the control contact is closed, the relay changes status.		
J Pulse generator 0.5s	relay remains open and the preset time delay begins, on completion the relay closes for a fixed time (0.5s) and then resets.		
K Memory latch (with delay)	relay remains open, closing control contact (regardless of how long) activates the relay starting the preset time period, on completion the relay opens, if the control contact is closed during timing the relay opens immediately. Each time the control contact is closed the relay changes status.		
L On delay (pulse controlled)	relay remains open and the preset time delay begins, on completion the relay closes for a fixed time (0.5s) and then resets.	°C	Thermostats



Catalogue



CRM-91H/UNI



CRM-161



Time setting

Fine time setting

Function setting



CRM-2H



PTRM-216TP/UNI

Modular timing devices

- Modular DIN-rail mounting, compact (*one module 17.6 mm wide*)

Multifunction - multi-voltage - multi-time range

- Time selection by rotary selector, fine setting by potentiometer
- LED indication: green - (*supply indication*) / red - (*relay output status*)
- Multi-time range: 0.1...1 / 1...10 - seconds, minutes, hours, days, permanent On (*or*) Off

type	supply voltage	function	time range	output contact
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CRM series - Advanced multifunction timers

Popular multifunctional time relay for universal use in automation, control and regulation applications. Includes all commonly used functions and time ranges. (*selectable via front mounted dials*)

- Multifunction: (*10 functions*) **A, B, C, D, E, F, G, H, I, J** (*see Intro. page*)
- Multi-time: (*10 ranges*) 0.1s - 10 days

Multifunction time relays

CRM-91H/UNI	12-240 VAC/DC	multifunction	0.1s...10 days	16A CO
CRM-93H/UNI	12-240 VAC/DC	multifunction	0.1s...10 days	3x 8A CO

With "push-in" terminals for ease of wiring

CRM-91H/UNI-SL	12-240 VAC/DC	multifunction	0.1s...10 days	16A CO
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With (supplied) external panel mount potentiometer (Ø 22 mm)

CRM-91H/UNI-E	12-240 VAC/DC	multifunction	0.1s...10 days	16A CO
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CRM series - Basic multifunction timers

Economy version of **CRM-91H** (*below*) with 6 most commonly used functions: on-delay, Interval, pulse contr. on-delay, off-delay, flasher, memory latch (*with delay*).

- Multifunction: (*6 functions*) **A, B, D, E, K, L** (*see Intro. page*)
- Multi-time: (*6 ranges*) 0.1s...10 hrs

Multifunction time relay (*basic version*)

CRM-161	24-240 VAC / 24 VDC	multifunction	0.1s...10 hrs	8A CO
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CRM series - Unequal repeat timer (*asymmetric recycler*)

Repeat timer with independently adjustable ON and OFF times.

Used for cyclic ventilation, lighting control, circulating pumps, illuminated advertising, etc.

- Asymmetric recycler - On first (*Off first by bridging terminals A1 and S*)
- Time range: (*10 ranges*) 0.1s - 100 days

Asymmetric recycler timers

CRM-2H	12-240 VAC/DC	unequal repeat	0.1s - 100 days	16A CO
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CRM series - Delay on de-energisation (*true off-delay*)

Relay energises on applying supply and remains energised for the preset time period after removal of supply.

- Multifunction: true off-delay, single shot, interval on, interval on/off (*1/2*)
- Multi-time: (*4 ranges*) 0.1s...1s / 1s...10s / 0.1m...1m / 1m...10 min

Delay on timer

CRM-71TO/UNI	12-240 VAC/DC	multifunction	0.1s...10 min	16A CO
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CRM series - Star-delta time relay (*delay ON of motors star/delta*)

Designed to manage the delayed start-up of star/delta motors. It controls the initial "star" connection time and the brief delay before switching to the "delta" operation to ensure a smooth motor start.

- Selectable time range Time t1 (*star*): 0.1s to 100 days / Time t2 (*delay*): 0.1s to 1s

CRM-2T/UNI	12-240 VAC/DC	star-delta	0.1s - 100 days	16A CO
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PTRM series - Panel mount electronic devices (*H*) 48 x (*W*) 48 x (*D*) 79 mm (*cut-out* 45 x 45 mm)

Mounts (*through hole*) on panel door exposing facia for easy access to timing and function controls.

- Multifunction: (*10 functions*) **A, B, C, D, E, F, G, H, I, J** (*see Intro. page*)
- Multi-time: (*12 ranges*) 50ms - 30 days, permanent On (*or*) Off

Panel mount multifunction time relay (48 x 48 mm)

PTRM-216TP/UNI	12-240 VAC/DC	multifunction	50ms - 30 days	2x16A CO
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Socket - for (above) PTRM-216T panel mount timer (*socket to be ordered separately*)

AZ511	11 pin socket with reversed terminals for connecting from rear
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Catalogue



CRM-101

CRM-47

Dedicated special application timing relays

Designed for specific energy conservation and overall comfort control conditions in domestic and commercial living environments.

type	supply voltage	description	delay time	contacts
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CRM series - Energy saving time relay

Typically used for energy saving in hotels, guesthouses or wellness centres, automatically disconnecting supply to room and/or airconditioner when unoccupied.

Combined with sensors - magnetic door/window contacts, conventional card switch and motion detector (*to detect presence in monitored room*)

- 2 x control inputs - potential-free contacts:
 - IN1 (MD) - motion detector
 - IN2 (MC) - magnetic door contact
- 1 x control input - voltage dependent contact
 - S (MD) - motion detector
- Configurable for NO (or) NC (*according to type of connected sensors*)
- Time delay (t1) (supply disconnection delay) 1...60 min
- Time delay (t2) (timed motion detector override) 0.5...120 sec

Energy-saving time relay

CRM-101	12-240 VAC/DC	energy saving time relay	1 - 60 min	16A CO
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CRM series - Smart staircase timer (programmable)

Enables delayed switching OFF of lighting on stairways, in corridors, entrances, common areas or ventilation fans in bathrooms. (*6 selectable functions*).

- Extend delay time by repeatedly pressing the control button S (*max.30 min*)
- End delay time prematurely by long press of control button
- Multi function:
 - Staircase switch (*a*) with indication (*b*) without indication
 - Memory latch press on / press off (*c*) without delay (*d*) with delay
 - Override func. permanent ON (or) permanent OFF

Stair case timer

CRM-47	230 VAC	staircase timer	0.5 - 10 min	16A CO
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SHT-13 - Digital (ASTRO) time switches with Wi-Fi connection (2 module wide 36 mm)

For real-time control of lighting, heating, pumps, appliances and many other applications programming for improved comfort and energy saving.

- All programs on one device (*daily, weekly, yearly and astronomical*)
- Pulse/cycle output mode (*can be used for school or factory period bell ringing*)
- 1 (or) 2 channel (*each individually programmable with operating hour counter*)
- Replaceable battery for time back-up in the event of power failure
- Astronomic program: manual entry of coordinates or selection of a preset city

type	supply voltage	time range	min time setting	power reserve	contact config
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Digital time switch - Astro

SHT-13	24-240 VAC/DC	half year	1 sec	10 years	16A CO
SHT-13/2	24-240 VAC/DC	half year	1 sec	10 years	2x 16A CO

Digital time switches - Standard

Used for programming time functions for various applications such as lighting control, heating, household appliances, shop windows and many other devices.

SHT-1/2UNI	12-240 VAC/DC	half year	1 min	10 years	2x 16A CO
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SOU series - Twilight switches (day/night switches)

For programmed control of lighting i.e switching street, garden, advertising signs and shop window lighting, etc.

type	supply	time delay	description	lux setting	contact
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- Ambient light level monitored by external sensor (*supplied with switch*)
- Adjustable illumination level (*1...100 lux / 100...50000 lux*), selectable TEST function

Day/night switch

SOU-1/UNI	12-240 VAC/DC	0...2 min	twilight sw.	10...50k lux	16A CO
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Surface mounting - with integrated sensor IP65 - (external wall mounting)

- Built-in high resolution light sensor (*adjustable lux settings*)
- Dual function:
 - 1) twilight sw: switches on decrease in ambient light (*1...100 lux*)
 - 2) light switch: switches on increase in ambient light (*100...100k lux*)

SOU-3	230 VAC	0 - 1 - 2 min	twilight sw.	1...100k lux	12A 1x NO
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SHT-13/2

SOU-3



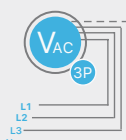
Catalogue



HRN-32/2



HRN-55N



HRN-56/400



PRI-34...

Voltage monitoring devices

- Monitors its supply voltage, TRUE RMS (*root mean square*) voltage values.
- Monitors voltage exceeding the upper (U_{max}) and/or falling below the lower (U_{min}) voltage levels
- Modular DIN-rail mounting, compact (*one module 17.6 mm wide*)
- Adjustable trip delay (*mitigating issues caused by short spikes or dips*)

type	monitored voltage range	undervoltage setting	trip delay	monitor	contact config.
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HRN series - Multifunction voltage monitors

Single phase voltage monitor

Function selection: **(O)** Over / **(U)** Under / **(W)** Window (*over/under*) with or without - **(1)** hysteresis (or) **(L)** Latch (*fault state memory*)

- Supply derived from monitored voltage
- Upper level setting (U_{max}): AC 160-276 V
- Lower level setting (U_{min}): set as a % of the upper level (U_{max})
- **HRN-32/2** has an independent output contact for each voltage level

AC DC voltage monitor 48 - 276 VAC/DC

HRN-31	48-276 VAC/DC	30-95% U_{max}	0.5-10s	over/under voltage	16A CO
HRN-32/2	48-276 VAC/DC	30-95% U_{max}	0.5-10s	over+under voltage	2x16A CO

* Separate c/o output contact for overvoltage and for undervoltage

DC voltage monitor - 6 - 30 VDC

HRN-36	12-30 VDC	50-95% U_{max}	0.5-10s	over/under voltage	16A CO
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HRN series - Three-phase voltage monitors

Phase failure/reversal relay - with overvoltage monitoring

Monitors its supply, ensuring all phases are present and in correct sequence and voltage does not exceed monitored parameters (*fixed 75% - 125% U_n*) **HRN-55N** also monitors neutral presence.

type	monitored voltage	monitored phases	trip delay	monitor	contact config.
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Phase failure/reversal relay

HRN-55	3x 400V	L1,L2,L3	0.5-10s	phase failure/reversal	8A CO
HRN-55N	3x 400/230V	L1,L2,L3,N	0.5-10s	ph failure/reversal +N	8A CO

With adjustable (70-95% U_n) Undervoltage monitoring

HRN-56/400	3x 400V	70-95% U_n	0.5-10s	phase fail/rev + u/volt	8A CO
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HRN series - Over/under voltage monitors - including phase failure/sequence protection

Monitors supply ensuring voltage is within independently selectable over and under parameters and that all phases are present and in correct sequence.

type	monitored voltage		trip delay	monitor	contact config.
	(U_{max})	(U_{min})			

- Monitors voltage, phase failure/sequence (**HRN-54N** also monitors neutral presence)
- Independently selectable over voltage (U_{max}) and under voltage (U_{min}) limits.

Over/under voltage monitor

HRN-54	420-500V	300-380V	0.5-10s	over/under voltage	8A CO
HRN-54N	242-288V	173-219V	0.5-10s	over/under voltage +N	8A CO

PRI-34 series - Current monitors - Multifunction

To monitor and control current values of alternating current in electrical systems.

- Measures TRMS (*true root mean square*) value of current
- Adjustable trip delay (0.5-10s) - mitigating issues caused by short term current spikes or dips
- Universal supply: 24 - 240 VAC/DC (-15%; +10%)

type	overcurrent setting (% I_n)	undercurrent setting (% I_n)	nominal current	current monitor	contact config.
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Function selection: **(O)** Over / **(U)** Under / **(W)** Window (*over/under*) with or without - **(1)** hysteresis (or) **(L)** Latch (*fault memory*)

- Lower level (I_{min}) set as a % of the upper level (I_{max})

Over/under current monitor

PRI-34/5A	10-100% I_n	5-95% I_n	5A	over/under current	16A CO
PRI-34/16A	10-100% I_n	5-95% I_n	16A	over/under current	16A CO



Catalogue

Liquid level control relay

For monitoring and control of conductive liquid levels in wells, basins, reservoirs, tanks...

- Modular DIN-rail mounting, compact (*one module 17.6 mm wide*)
- Configurable for monitoring of one or two levels (*bridge terminals H and D*)
- Selectable UP (*filling*) or DOWN (*emptying*) function
- 10Hz measuring frequency (*prevents ioxidation of measuring probes and liquid polarization*)
- One-state device monitors one level, two-state device monitors two levels (*switches on one level and switches off on another level*).

type	supply voltage	sensitivity adjustment	trip delay	monitor	contact config.
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HRH series - Liquid level control relays

- Adjustable sensitivity: 5...100 kΩ (*corresponding to "resistance" of monitored liquid*)
- Adjustable output delay 0.5...10 sec (*reduce undesirable switching in turbulent liquids*)
- Universal supply voltage: 24 to 240 VAC/DC (*galvanically separated*)

Liquid level control

HRH-5/UNI	24-240 VAC/DC	5 - 100 kΩ	0.5-10s	liquid level control	8A CO
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TER-3 series - Thermostats (temperature control)

RHT-1 hygro-thermostat and TER-3 single-level thermostats form a compact, DIN-rail-mounted range that keeps control panels and equipment at the right climate automatically.

Single thermostat for temperature monitoring and regulation in switchboards, heating/cooling systems, liquids, radiators, motors, devices, open spaces, etc.

- Selectable "heating" or "cooling" function
- Modular DIN-rail mounting, compact (*one module 17.6 mm wide*)
- Adjustable hysteresis (*sensitivity*), by potentiometer (0.5...5°C)
- Red LED indicates status of output, green LED indicates energization of the device.
- External temperature sensors - double insulation cable - (*standard lengths 3, 6, 12m*)
- Universal supply voltage: 24 to 240 VAC/DC (*galvanically separated*)

type	sensor type	temperature range	hysteresis	monitor	contact config.
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Thermostats (temperature control)

TER-3E	NTC thermistor	0...60°C	(fixed) 1°C	thermostat (TZ)	16A NO
TER-3D	NTC thermistor	0...60°C	0.5...5°C	thermostat (TZ)	16A NO
TER-3F	NTC (<i>built-in</i>)	0...60°C	(fixed) 1°C	thermostat	16A NO
TER-3G	PTC sensor	0...60°C	0.5...5°C	thermostat (Pt100)	16A NO

Sensors/probes for (above) thermostats - silicone cable (3 / 6 / 12 meters)

TZ-3	NTC thermistor	-40...+125°C	12 kΩ	silicone insulated	3 met
TZ-6	NTC thermistor	-40...+125°C	12 kΩ	silicone insulated	6 met
PT100-3	PTC sensor	-30...+200°C	Pt100	shielded silicone	3 met
PT100-6	PTC sensor	-30...+200°C	Pt100	shielded silicone	6 met
PT100-12	PTC sensor	-30...+200°C	Pt100	shielded silicone	12 met

TER-7 series - Thermostat (for monitoring temperature of motor winding)

Thermistor relay for protection of motor overheating, input designated for sensor PTC in-built in motor winding.

- Connects to the internal PTC sensing element of the motor winding
- Selectable MEMORY function (*resettable via facia reset button or remote button*)
- Universal supply voltage: 24 to 240 VAC/DC

Thermostat with PTC sensor

TER-7	PTC sensor	1.8...3.3 kΩ	—	motor winding PTC	2x16A CO
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RHT series - Hygro thermostat

Designed for monitoring environmental parameters (*meaning temperature and relative humidity*) in switchboards.

- Modular DIN-rail mounting, compact (*one module 17.6 mm wide*)
- Setting of up to 8 conditions for contact switching and function or permanently ON/OFF.
- Hygro-thermostat for temperature monitoring (0...60°C) and relative humidity (50...90%)
- Sensor incorporated into the relay (*for measuring conditions within switchboards*)
- Temperature hysteresis fixed at 2.5°C and humidity at 4%
- Universal supply voltage: 24 to 240 VAC/DC

Hygro thermostat

RHT-1	built-into relay	0...60°C	(fixed) 2.5°C	hygro-thermostat	16A NO
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HRH-5/UNI



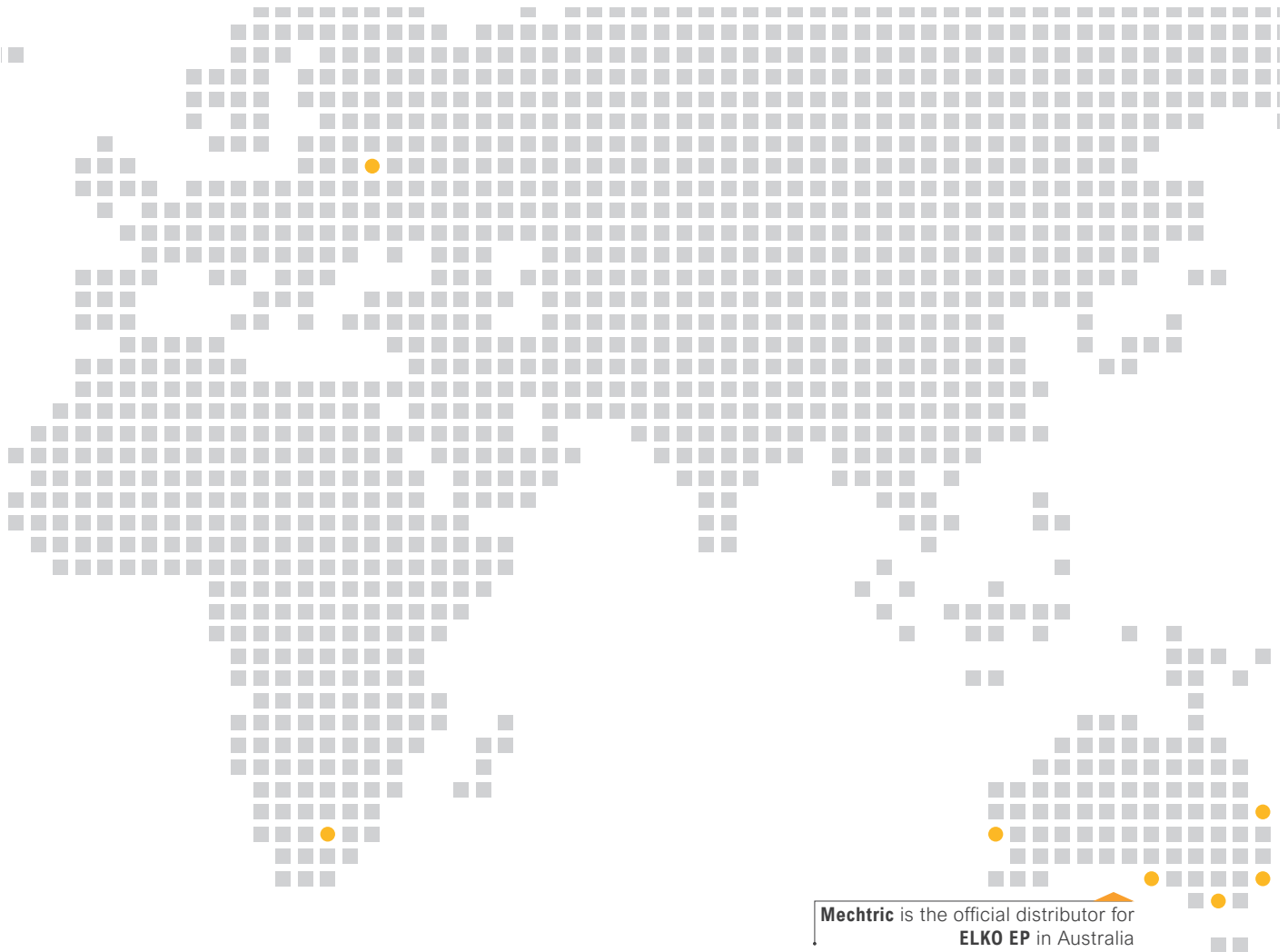
TER-3D



TER-7



RHT-1



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