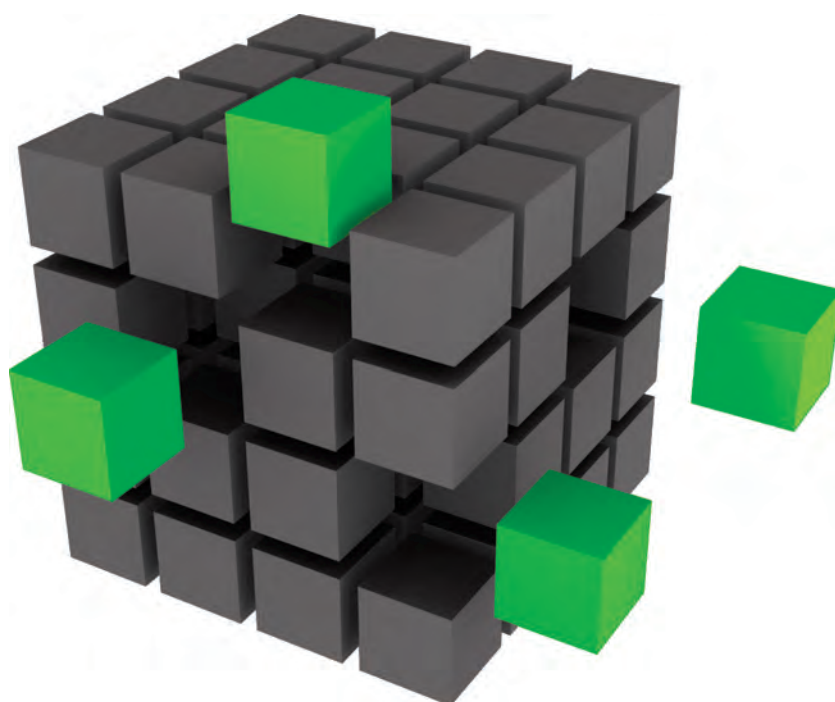


PRODUCT HIGHLIGHTS



Timers | Time Switches | Hour Meters & Counters | Logic Controllers | Power Supplies |
Converters & Transducers | Isolated Relay Modules | Monitoring Devices |
Temperature Controllers | Alarm Annunciators

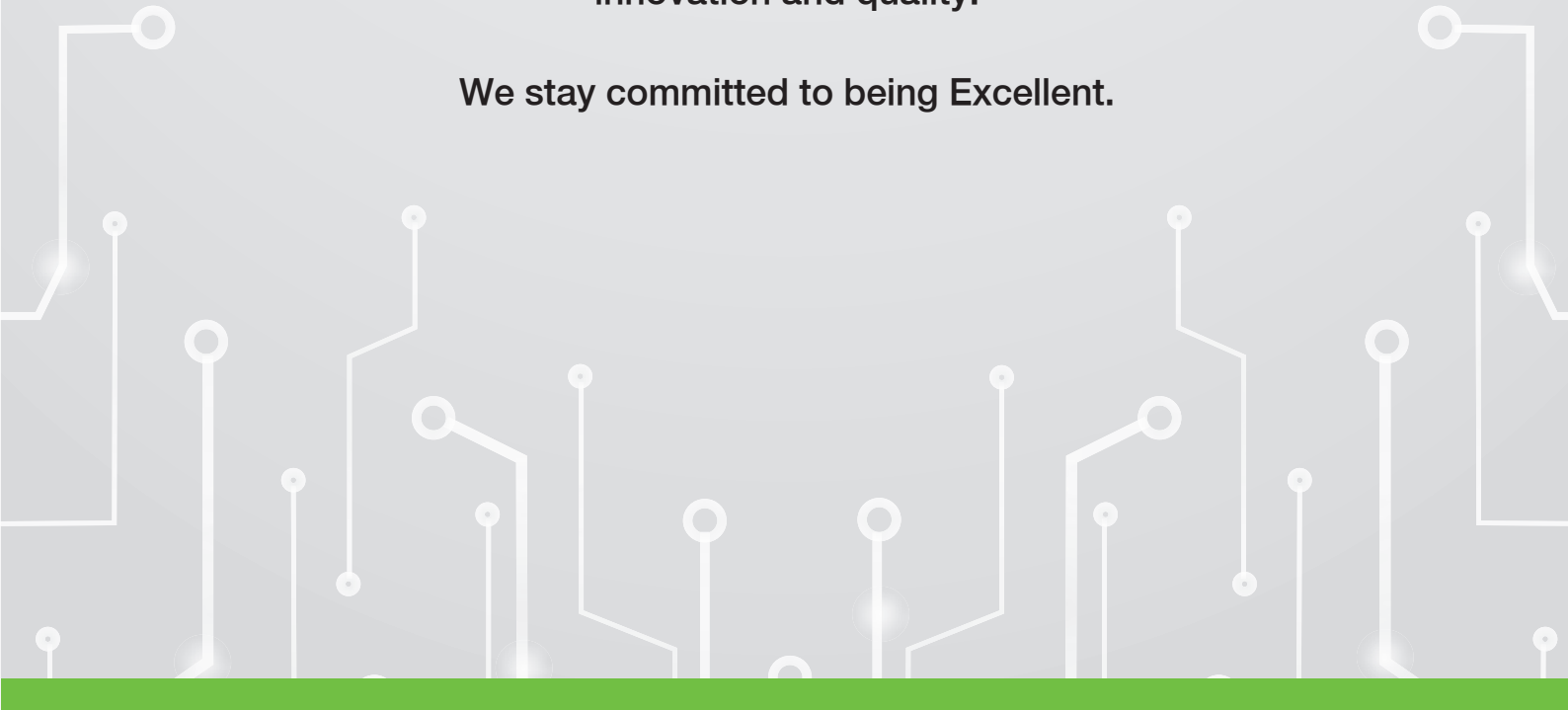


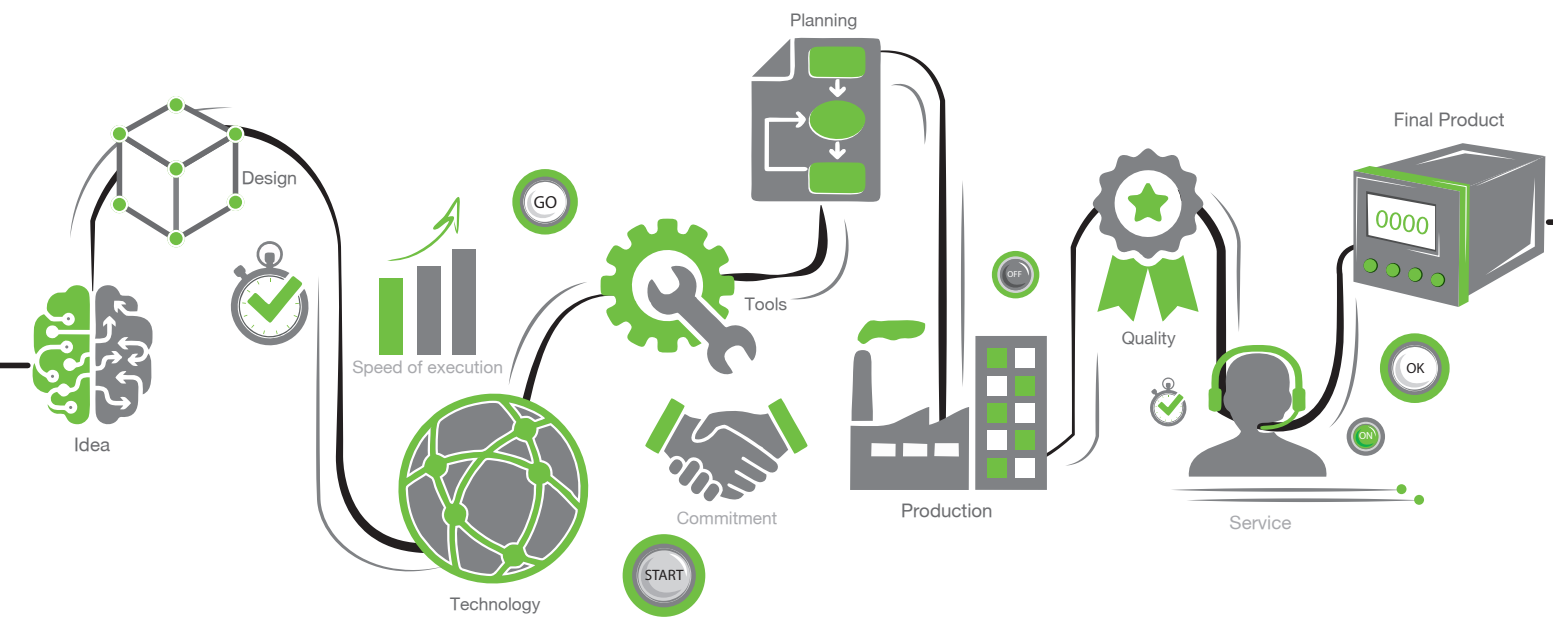
Committed to **EXCELLENCE**

We at GIC, understand how important it is to provide our customers with the best experience. It is important that we create such an experience that they feel strongly connected to our brand, time and again.

We understand that for our customers to excel, we need to excel in everything that we offer. The foundation of excellence lies in being relevant to market needs, ensuring excellence in our products, a deep understanding of customer satisfaction, ensuring dependable services, and encouraging our people to excel, thus ensuring innovation and quality.

We stay committed to being Excellent.














ABOUT GIC

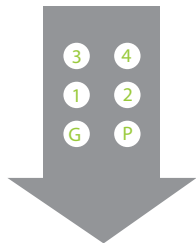
Established in 1972, General Industrial Controls Private Limited (GIC) located in Pune, India, manufactures Process Control, Automation and Instrumentation products. GIC was the first company to launch Time Switches and Timers in India. What started as a small venture four decades back, is now a company that offers an array of world-class products. With relentless focus on customer satisfaction, GIC has successfully innovated and continuously improved their capabilities to build a product portfolio that embodies finesse and excelled quality.

Today, we are an ISO 9001:2008, IATF 16949 certified organization with state-of-the-art plants having integrated facilities for everything from 'design to delivery' under one roof.

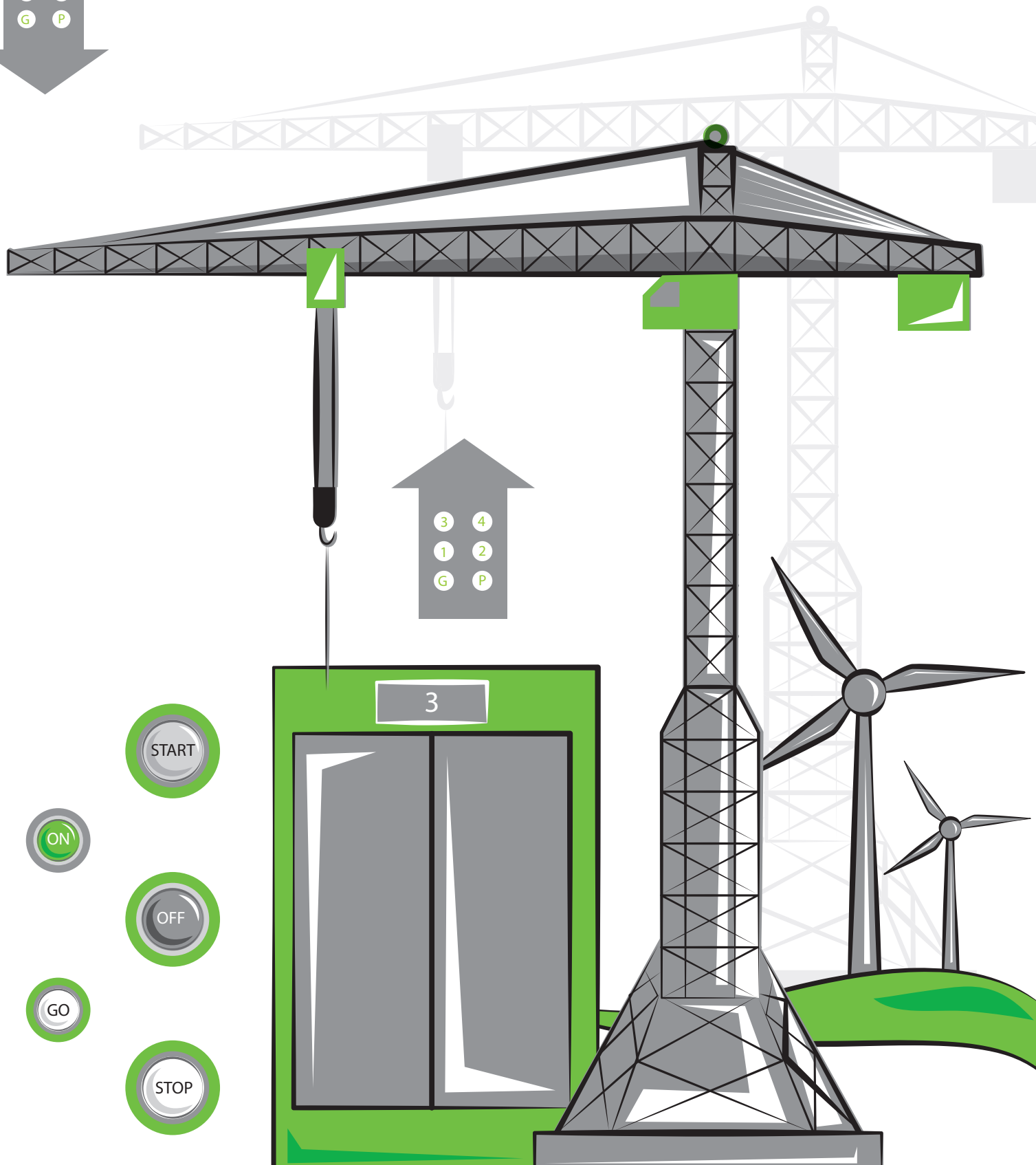
Our high performance products for Process Control and Automation application, together with our ingenious tooling and component manufacturing solutions, have garnered us an excellent reputation world over.

TABLE OF CONTENTS

	Timers	6
	Time Switches	9
	Hour Meters & Counters	12
	Logic Controllers	15
	Signal Converters	18
	Isolated Relay Modules & Power Supplies	21
	Monitoring Devices	24
	Temperature Controllers	28
	Alarm Annunciators	31



Timers



Applications of Timers

Engine Auto Start Control, Cranes, Elevators, Windmills, Motor Starter Panels



TIMERS

Key Products

Digital Timer *Eliso*®, Programmable Digital Timer *Eliso*®, Electronic Timer-Series Micon® 175 & Micon® 225



V0DDTS



V7DFTS3



1CMDT0



2A5DT5






2A8DT6

Features

GIC manufactures comprehensive range of programmable digital, electronic & electromechanical Timers that cater to a wide base of applications. Used to measure and control time intervals, our Timers have various functions that make them suitable for specific customer requirements.

Our range includes:

- Compact 17.5mm, 22.5mm wide DIN mount housing & 48x48mm panel mounting
- Mono & Multi-function: Non-Signal & Signal based functions
- Multi-Voltage: 12-240 VAC/DC
- Wide Timing Range: 0.1s to 999 days
- Output: 5A, 8A & 16A relays available
- High Timing Accuracy
- LED indicators for Power Supply & Relay Status
- Excellent Noise Immunity to the latest IEC standards
- Certifications:   



Product Range



Digital Timer *Eliso*®

- Multi-Voltage: 24-240 VAC/DC
- Multi-Function: (8 or 18) Non-Signal & Signal based functions
- Wide Timing Range: 0.1s-999h



Programmable Digital Timer *Eliso*®

- Multi-Voltage: 110-240 VAC
- Multi-Function: 35 functions with 2 independent relay outputs
- Wide Timing Range: 0.1s-999 days



Electronic Timer-Series Staircase

- 3 Wire & 4 Wire Configurations
- Functions with Pre-Warning, Cut-Off & Release Delay
- Time Range: 0.5min-20min



Electronic Timer-Series Micon® 175

- Integrated Dual Voltage/Multi-Voltage
- Multi-Function with 1 C/O
- Wide Timing Range: 0.1s-100h
- Available in 16A relay output



Electronic Timer-Series Micon® 225

- Multi-Voltage: 24-240 VAC/DC
- Multi-Function with 2 C/O
- Wide Timing Range: 0.1s to 120 days



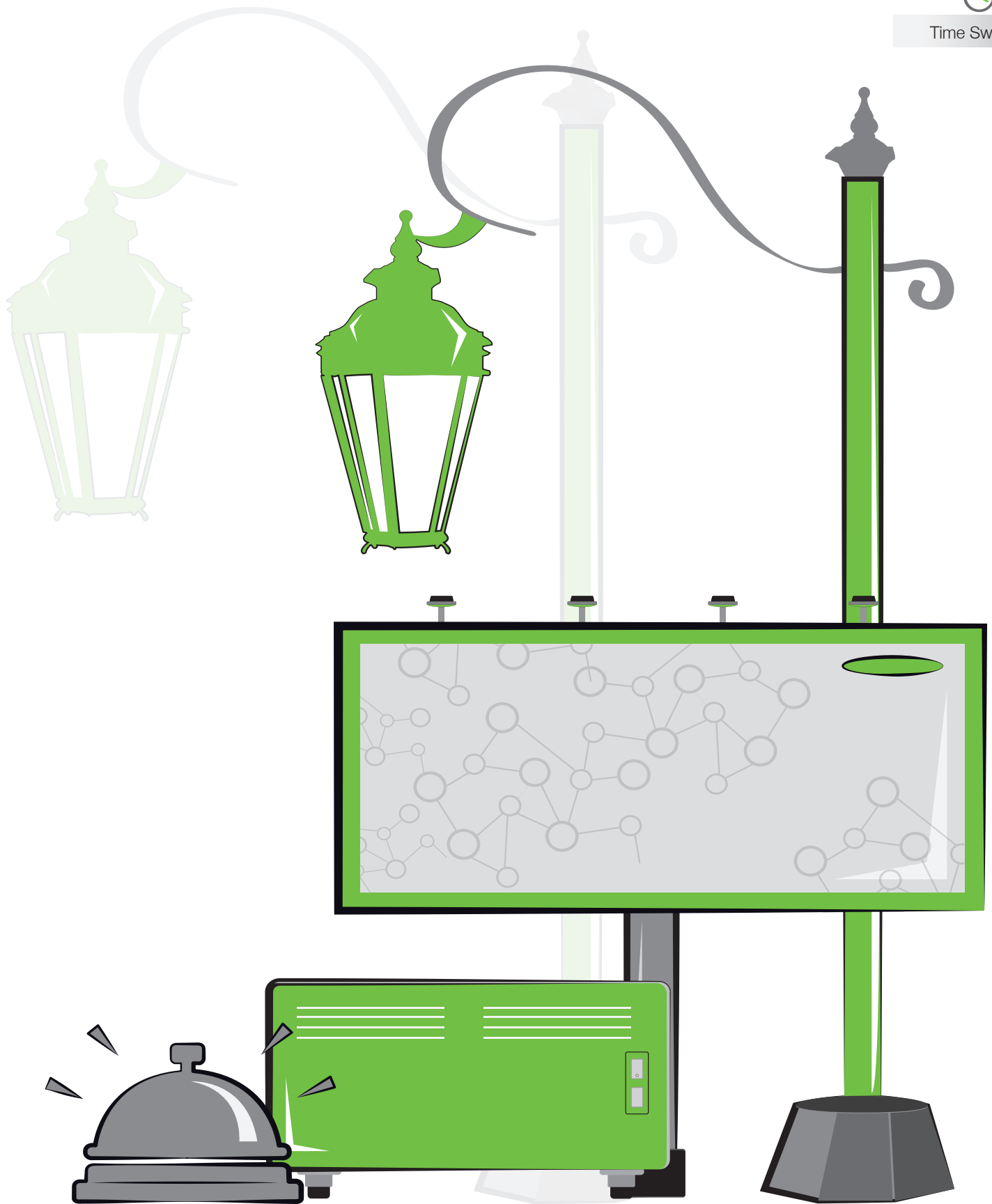
Motor Control Timers

- Brown Out Timer with 2 Functions: ON Delay and Interval
- Detects Voltage Dips & Momentary Loss of Supply & Resets the control panel
- Low Power Consumption & Fast Response Time



Synchronous Timers

- Time delay is independent of normal voltage and temperature fluctuations
- Black pointer gives clear indication of the time set on the calibrated dial while the red one indicates the time left to complete the cycle
- No-volt feature available



Applications of Time Switches

Ideal for Lighting Automation-Street Lighting, Indoor Office & Parking Lighting, Glow Signs, Advertising Displays, Scheduling Sirens, Bells, Factory Hooters. Automation of ACs, Coolers, Pumps, Geysers, Conveyors.



TIME SWITCHES

Key Products

Analog Time Switch, Digital Time Switch *Crono*® & *Pulse* and Astronomical Time Switch *Astro*®



J648B1



67DDT0



T2DDT7






T3DDT0

Features

GIC manufactures Time Switches in both analog and digital versions that accurately control the switching of electrical loads based on a predetermined schedule. While Timers are used to control processing times, Time Switches are used to control events with respect to a real time clock (RTC). Programming the control of electrical loads according to the needs of each application obtains measurable advantages in terms of ergonomic comfort and reduction of energy consumption.

Astronomical Time Switches are programmed to control electrical loads based on the sunset and sunrise time. These Time Switches intelligently and accurately automate street light switching that save energy & enhance the life of the lamps.

Our range includes:

- Analog Time Switches with 150 hours battery reserve
- Daily/Weekly Programming
- High Switching Capacity of 16A
- Digital Time Switches with 6 years battery reserve
- Multiple ON/OFF programs & weekend exclusion
- Astronomical Time Switches with user-friendly computer software
- Yearly programming with Season mode, DST, Offset, OFF hours, Weekly Off features
- Certifications:    IEC 60730-2-7



Product Range



Analog Time Switch

- 110/240 VAC
- Modular Construction with ease of setting
- Daily/Weekly programming
- Inbuilt over-ride facility & High switching capacity



Digital Time Switch *Crono® & Pulse*

- 12/24 VDC, 110-240 VAC
- Precise time programming for Daily/Weekly/Pulse switching
- Weekend exclusion (FRI SAT or SAT SUN) and Weekly OFF programming
- 25 ON/OFF programs
- Settable DST & Keypad Lock Feature



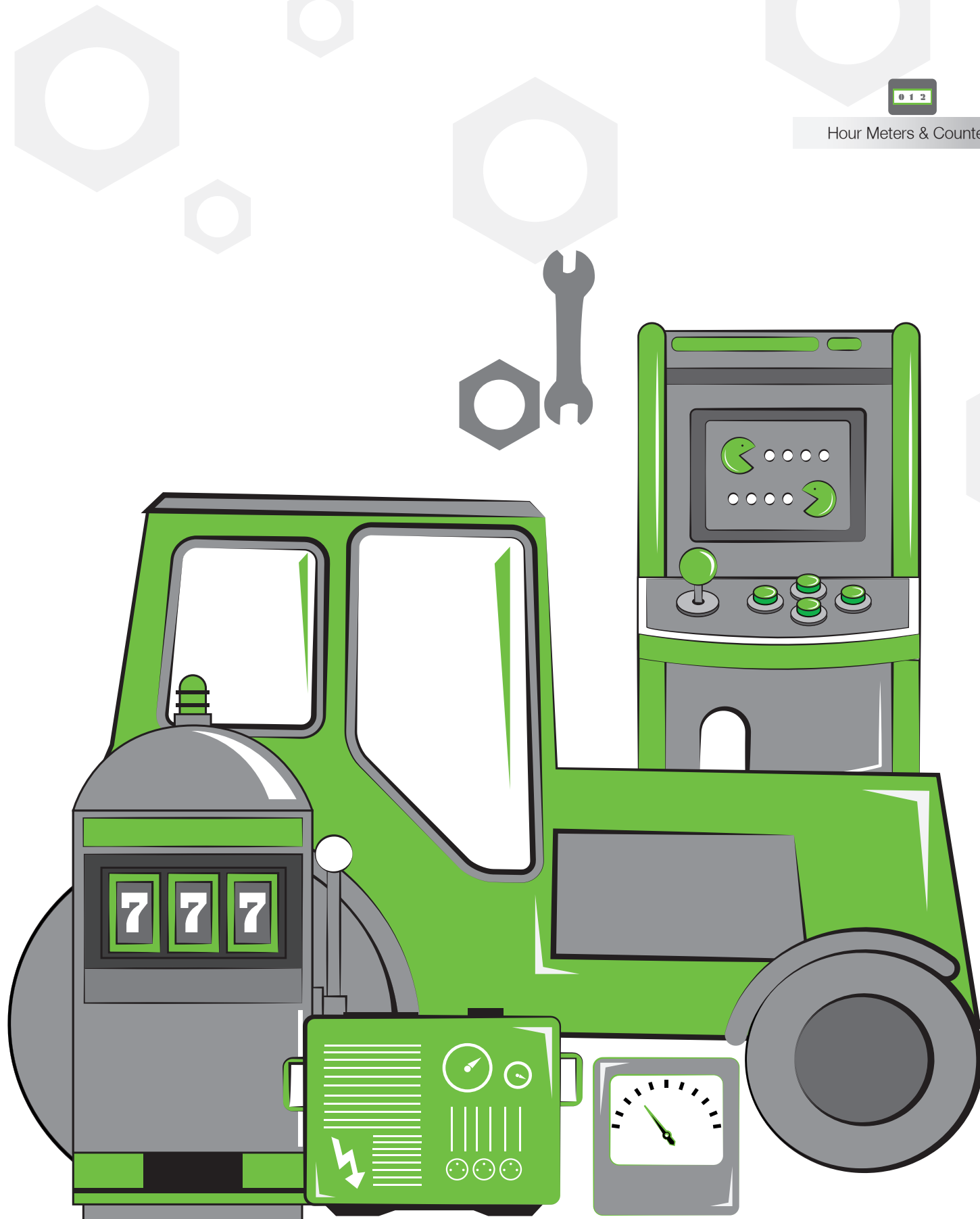
Astronomical Time Switch *Astro®*

- 110-240 VAC
- Dynamic and accurate control based on astronomical mathematics
- Latitude/Longitude precise to the minute with time zone
- Sunrise/Sunset or Twilight rise/set trigger modes
- Single Phase & 3 Phase versions



Lighting Automation with *Astro®* using GSM Technology

- Most of the “ASTRO” parameters can be set remotely using SMS queries-like Output mode, Offset Hrs, UV, OV settings
- Can remotely override relay output using SMS query
- Energy Meter Functionality
Parameter like Load current, Supply voltage, Power, Energy can be known remotely
- With the help of “Auto Error Code Update” onsite error can be retrieved remotely during output event



Applications of Hour Meters & Counters

Generator and Compressor Panels, Earth Moving Equipment, Materials Handling Equipment, Tractors, Instrumentation Panels, Gaming Machines

HOUR METERS & COUNTERS

Key Products

Hour Meter Series HM 36, Impulse Counters, Digital Hour Meter & Counter, Rate Indicator & Totaliser



LA25F1

30A6B1

Z2221N0G2FT00

SA51A-356

Features

GIC manufactures Hour Meters & Counters in both analog and digital versions. Hour Meter is an instrument that tracks and records elapsed time, normally displayed in hours and tenths of hours. The majority of Hour Meters are used to log running time of equipment to assure proper maintenance of expensive machines or systems. Just as Hour Meters measure running hours, Counters measure the frequency of occurrence or the number of units of specific items. Coupled with a suitable sensing device that provide the necessary pulse, counting the number of specific events or items is the simplest application of counters.

Our range includes:

- Wide supply voltage
- Panel, DIN Mount
- Resettable & Non-Resettable
- Multiple Bezel options
- Frequency independent for AC applications
- Ideal where space is limitation
- Retentive & Non-Retentive modes
- Certifications:    NEMA 4X

Product Range



Hour Meter Series HM 36

- Wide supply voltage range: 4-36 VAC/DC, 10-80 VDC & 90-264 VAC
- 6 Digit Non-Resettable with automatic recycle to zero
- Robust design with high degree of Accuracy and Compact size
- Totally sealed from Dust and Moisture



Digital Hour Meters

- Wide supply voltage range: 12-48 VAC/DC, 10-80 VDC & 85-265 VAC
- 6-digit LCD
- In-built non-volatile memory (EEPROM) offering exceptional reliability
- Remote reset available



Impulse Counter Series CR 18

- 12/24 VDC
- 7-digit Compact Size and Robust Design
- High Accuracy and Reliability
- Non Resettable & Tamper Proof
- Ideal where space is limitation
- Mounting options: Panel (Screw mount/Snap-in type), PCB



Digital Counters

- Wide supply voltage range: 12-48 VAC/DC, 10-80 VDC & 85-265 VAC
- 6-digit LCD
- In-built non-volatile memory (EEPROM) offering exceptional reliability
- Remote reset available



Impulse Counter Series CR 26

- 9-250 VDC, 24-230 VAC
- 4 & 6-digit Compact and Robust Design
- High Accuracy and Reliability
- Resettable & Non Resettable
- Requires no lubrication or maintenance
- Three mounting options: Bail, Panel, Base



Digital Hour Meter Counter & Rate Indicator-Totaliser

- Wide supply voltage range: 9-30 VDC, 85-265 VAC/DC
- Suitable for Hour Meter & Counter (Up/Down) application
- Preset & Alarm facility for both Hour Meter & Counter
- 7 Digit LCD with luxurious green backlight
- Relay & MOSFET Output with Over Load detection
- Wide input signal sensing range 0.01Hz to 20KHz
- Prescaling & Alarm facility for Rate Indicator & Totaliser



Impulse Counter Series CR 36

- 12/24 VDC
- 7-digit Compact Size and Robust Design
- High Accuracy and Reliability
- Shock & Vibration Proof
- Non Resettable & Tamper Proof



Applications of Logic Controllers

Pressure Booster Pump Control, AMF Control, Industrial Lifts, Packaging Machines, Hydraulic Press Control, Glass Tempering Machine, Turnstiles, Industrial Washing Machine, Irrigation Control Panels, Vending Machines, Cutting Machines



LOGIC CONTROLLERS

Key Products

GSM Controller, Smart Relay *Genie™-NX*, Mini PLC PL-100 Powered With GSM Alarm Modem



26A11AV



G7DDT10



PC10BD16001D1

Features

GIC manufactures Logic Controllers like GSM Controller, Smart Relay-Genie Nx & Mini PLC PL-100 which cater to a wide variety of control applications. Our Logic Controllers provide economical solutions to basic control needs for simpler as well as complex applications.

Smart Relay & Mini PLC PL-100 allow users to process digital and analog input signals, as well as functions like timers, time switches, hour meters, counters, retentive timer & counters. The system can process from 12 to a maximum of 112 I/Os, with 4/6 extension modules. These controllers can be easily configured and programmed by user friendly programming software. GSM Alarm Modem is designed to provide GSM features to Mini PLC PL-100.

Our GSM controller offers an ideal solution to remotely monitor & control the ON/OFF switching of various electrical loads using mobile handsets. Primarily it is used by farmers to switch ON and OFF pump sets from a remote location which enables them to handle their irrigation pump sets efficiently.

We have also introduced an Android App "M-Remote" for enhanced & intuitive user experience to monitor and control the switching of the electrical loads using mobile handsets. M-Remote is capable of synchronizing multiple pumps or set of loads controlled by a single master number. Live updates and pictorial representation of real time information makes "M-Remote" an indispensable tool for remote monitoring & diagnostic control.

Certifications:   



Product Range



GSM Controller

- 85-500 VAC, Suitable for both 1 Phase and 3 Phase installations
- Ideal for ON/OFF Switching of load remotely using Mobile Handsets
- SMS alerts for ON/OFF status, Power fail, Power on, Phase error, Error recovery, Phase fail, Contactor pick-up fault and SIM balance
- Switching enabled by number of missed rings or sending SMS to the device
- Android App for remote monitoring & diagnostic control



Smart Relay *Genie™-AX*

- 12-24 VDC, 24 VAC/DC, 110-240 VAC
- Supports up to 48 I/Os (32 Digital Inputs & 16 Digital Outputs), 8 analog inputs
- 16 Timers, Time Switches, Counters, Compare Counters, Soft Text Messages, 12 Analog functions, 4 Hour Meters, Advanced Time Switch and Multi-Level Password
- Backlit LCD Screen for display & modification of pre-selected parameters of functional blocks, viewing I/O status and programming on the device
- PC software for programming, online & offline simulation, documentation & printing



Mini PLC PL-100

- 24 VDC
- Supports up to 112 I/Os (56 Digital Inputs & 56 Digital Outputs), 24 Analog Inputs & 12 Analog Outputs
- Isolated Digital Inputs with sourcing & sinking capability
- High Speed Input & Outputs
- Standard RS232/RS485 port with RJ11 for HMI/SCADA Interface
- Modbus RTU support
- PC software for programming, online & offline simulation, documentation & printing

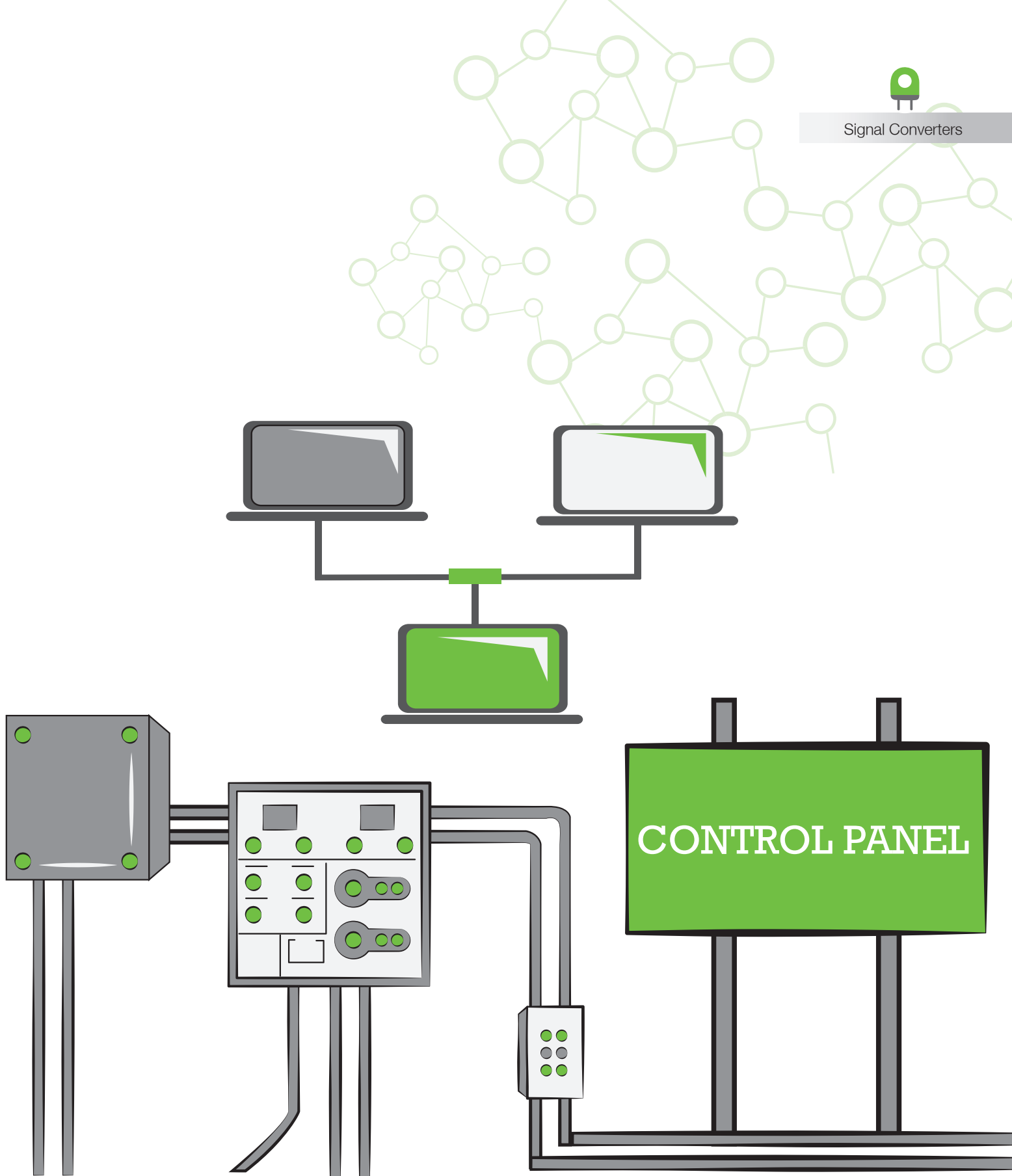


Mini PLC PL-100 Powered with GSM Alarm Modem

- The GSM Alarm Modem will enable monitoring of inputs, outputs and controlling of outputs of Mini PLC PL-100 through SMS facility
- The preset and current value related to special function blocks (SFBs) that are available in the ladder logic can be monitored
- Analog input and output values can also be effectively monitored and controlled
- Diagnostic information about all the inputs and outputs of devices connected in the system is available for the users. Device and Clock settings can be configured by sending respective queries to the device
- User can integrate Special Function Blocks such as Send and Receive SMS along with others like Timers, Time Switches, Counters, etc. for various applications
- Alert messages can be received from the GSM Alarm modem depending on the ladder logic
- Power Failure condition can also be effectively reported



Signal Converters



Applications of Signal Converters

Interface of HMI, Energy Meters, Drives with PLCs, Convert Signal from Pressure/Level/Flow and Temperature Sensors in Water and Other Process Management Systems, Alarm Management and Data Logging, Optical Isolation from Field Sensors



SIGNAL CONVERTERS

Key Products

Protocol Converter- *Lynx* Gateway, USB to RS232/RS485/RS422 Converter, RS232 to RS485/RS 422 Converter, Signal Transducer



25A11A0



28A11A0



28B21A0





2SC3D11CC3

Features

A Protocol Converter is a device used to convert standard or proprietary protocol of one device to the protocol suitable for another device or tools to achieve the inter-operability. GIC manufactures a versatile protocol converter to convert Modbus RTU to Modbus TCP/IP & Serial to Ethernet.

Interface converters allow serial devices on RS232/RS485/RS422 to communicate with systems using USB interface. RS232 to RS485/RS422 converters are devices which convert standard RS232 data signals into RS485/RS422 signals and vice versa.

Process control and monitoring systems often utilize a large number of standard process signals; voltage levels, current loops, temperature and pulse signals to name a few. When designing a system, it is not always cost effective to exactly match each type of sensor to a controller. In this case our signal transducers can be used effectively to convert the input signal to the desired output.

Certifications:   Compliant



Product Range



Protocol Converter- *Lynx* Gateway

- Serial protocol support for Modbus (RTU and ASCII) Master/Slave
- Network protocol support for Modbus TCP (Server/Client)
- Supports Raw Serial to Ethernet conversion with Telnet RFC2217
- Serial Interface support for RS232, RS422 and RS485 network
- Serial Baud rate: 300 bps to 115.2 Kbps
- Ethernet interface support: 10/100Mbps with Auto Negotiation
- Configurable using Embedded Web server and Application software
- Network Protocols: ARP, TCP/IP, HTTP, BOOTP, TFTP, ICMP, TELNET, DHCP, AutoIP
- Isolation between Communication Ports & Input Power supply



USB to RS232/RS485/ RS422 Converter

- Input: USB 2.0 Protocol
- Output: RS232 on DB9 Male connector compatible to PC RS485/RS422 on terminal block
- Communication Speed: 300bps to 230Kbps
- Galvanic Isolation of 1.5kV
- RS232/RS485 line protection: +/- 15kV ESD
- LED Indication for transmit & receive signals
- Input power from USB port, no external power required
- Virtual COM port USB Drivers provided for Win XP, Vista, Win7, Win8



RS232 to RS485/RS 422 Converter

- Input power supply range 9 VDC to 26 VDC
- Isolated RS485/RS422 on terminal block
- RS232 with DB9 female connector
- Auto direction control for RS485-2W transmission
- Galvanic Isolation of 1500V for RS485/RS422
- Supports Baud rate up to 230Kbps
- Internal 15 kV ESD protection both RS232 and RS485/RS422
- LED Indication for transmit, receive signal communication traffic

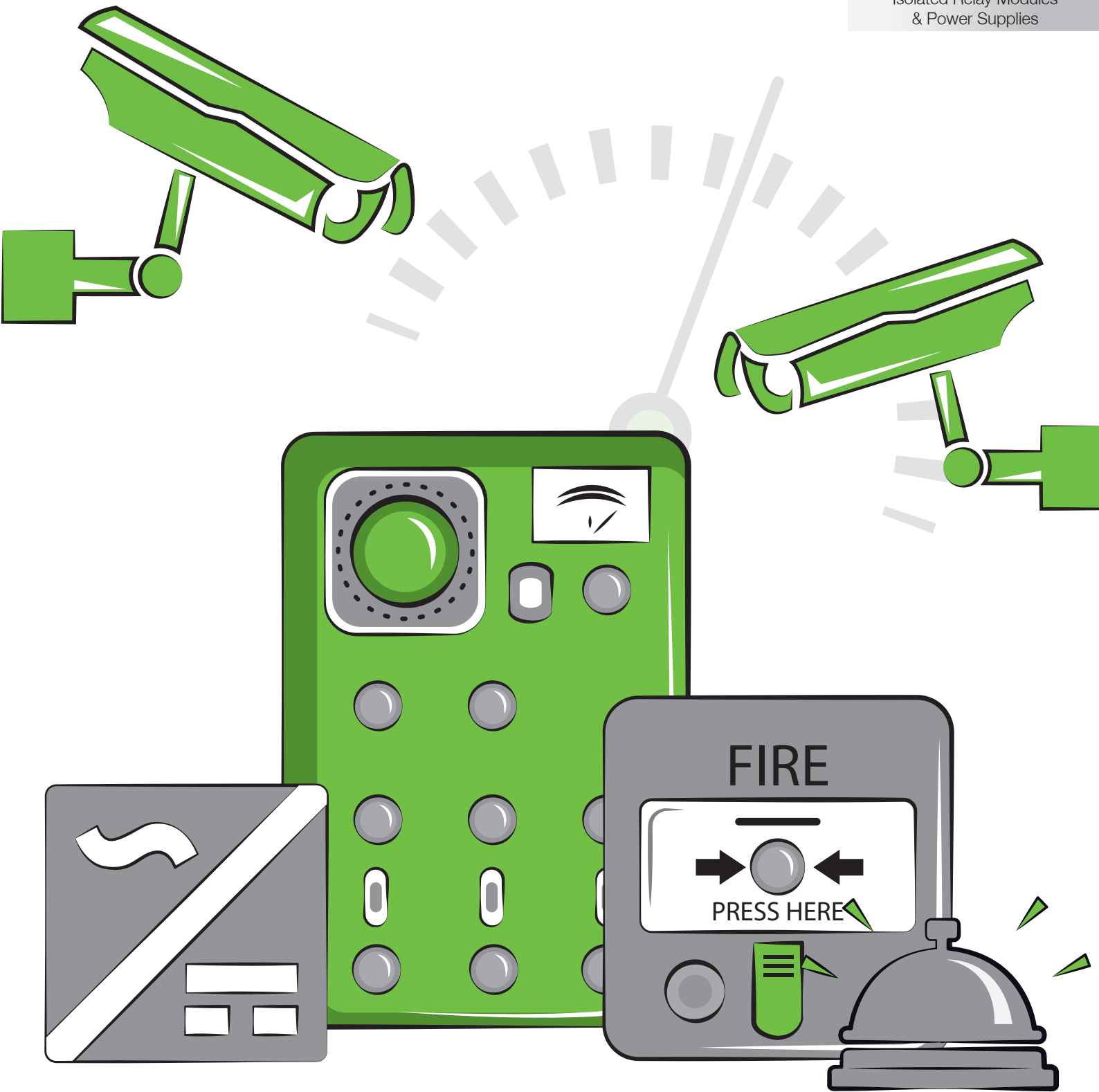


Signal Transducer

- 24 VDC
- Input/Output configuration selected via DIP switch combinations
- Choice of 16 analog input-output configurations
- Provides 3-way galvanic isolation of 3.75kV
- Fast output Response Time (<100ms)



Isolated Relay Modules
& Power Supplies



Applications of Isolated Relay Modules and Power Supplies

Fire safety applications that Interface with HVAC system, Power Supply to PLCs, HMI, Field Sensors and Equipment, Tooling Machines, Packaging Industry, Textile Industry, Laser Tools, Printing Industry, Food Industry, Security Systems, Railway Applications, CCTV Security Systems



ISOLATED RELAY MODULES AND POWER SUPPLIES

Key Products

Isolated Relay Output Modules, Switched Mode Power Supply



IRLA04S



24BS241D2F





24BS24AD4E

Features

GIC manufactures Isolated Relay Output Modules which are designed for efficient switching of loads, keeping effective isolation between low voltage at input switching side & high voltage at relay output side. The output relays are energized by closing the respective input contact, either by potential free switch or by NPN proximity switch.

GIC manufactures a range of DIN-rail/Base mount, Single Phase Switching Power Supplies available in ratings of 5W to 96W. Features like high output accuracy with superior load & line regulations, with an input voltage range from 90 to 265 VAC, make these power supplies an ultimate choice for any industrial application.

Certifications:   Compliant



Product Range



Isolated Relay Output Modules

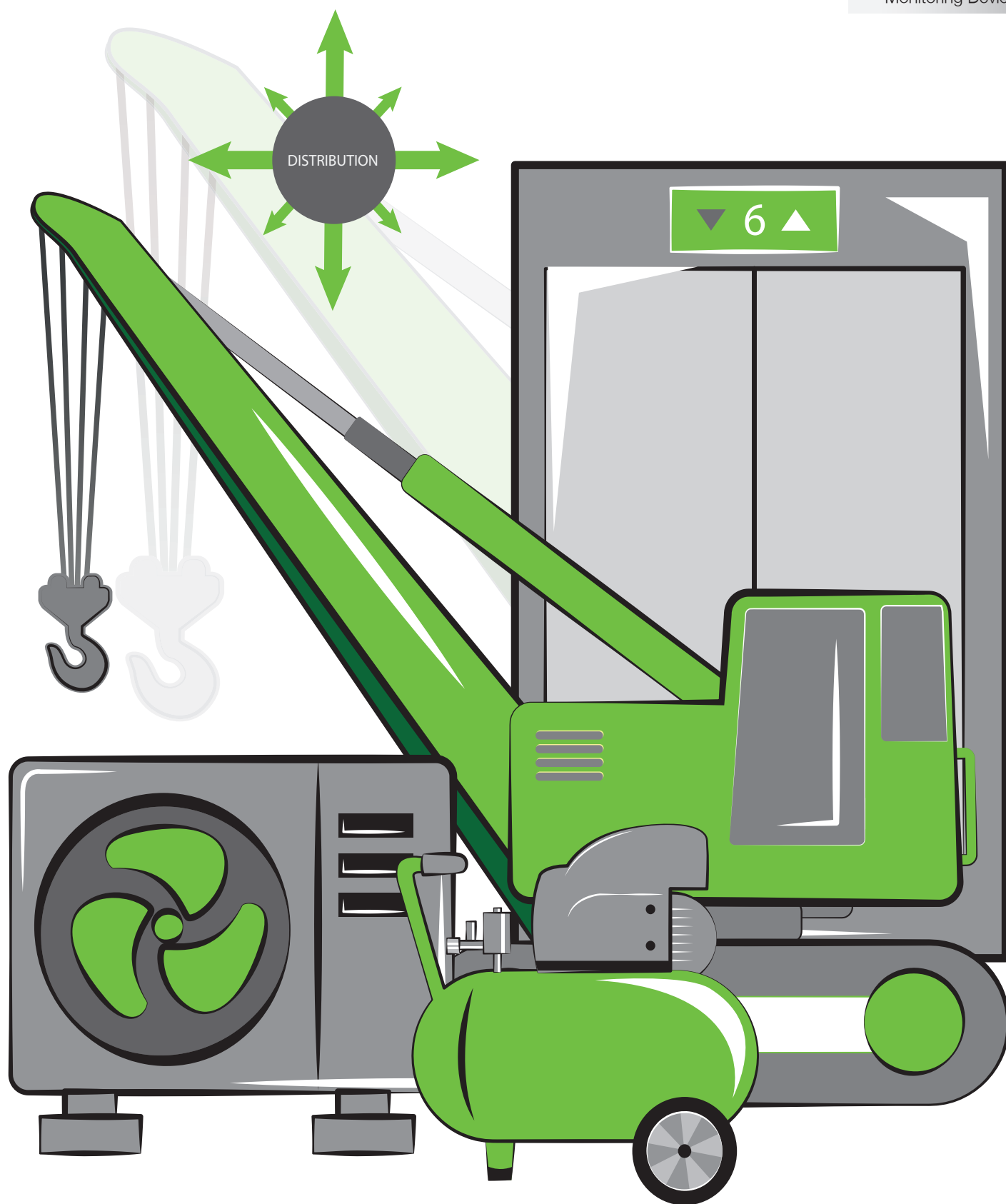
- Provides effective 3 way Isolation between supply, input switch & relay output
- Provides isolation of dissimilar circuits
- Enables control of multiple loads when only one relay output is available
- Isolated Relays are mainly used in fire safety applications that interface with HVAC system, elevator controls and access control doors.
- It can also be integrated with PLC systems
- Available in 1, 2, 4 & 8 channel configurations



Switched Mode Power Supply

- Excellent Load & Line Regulation, High Noise Immunity & Low Ripple
- 5W to 96W models available
- No Load Power Consumption of less than 0.5W
- Overload & Short Circuit Protection
- Suitable for Temperatures upto 55°C
- Peak Power Capacity, Small Form Factor
- Compact Design with DIN Mounting





Applications of Monitoring Devices

Elevators, Cranes, APFC, MCC, Distribution, PLC and almost in all Types of Protection Panels, Control Panels for Motors, Pumps, Air Handling Units, Compressors, Level Monitoring for Tanks, Mining Equipment



MONITORING DEVICES

Key Products

SM 175, SM 301, SM 500, SM 501, Earth Leakage Relay, Current Monitoring Relay, Liquid Level Controller



17A322CB0



MAG03D0424



MAC04D0100



4421AD1
with 44S0006



17K716QF4M



Features

While operating electrical installations it is not possible to completely avoid occurrence of faults. This is why suitable protection devices have to be used in order to limit the consequences of faults. This can have pronounced effect on reliability and availability of the system. In order to guarantee reliable operation of an installation, the measuring and monitoring devices have to respond to occurring failures quickly, reliably and selectively.

GIC manufactures Monitoring Devices which are classified into 5 categories:

i) Voltage ii) Current iii) Frequency iv) Temperature v) Level

Our range includes:

- 3P-3W/3P-4W Voltage Monitoring Relays
- Single and Three Phase Current Monitoring Relays-Over & Under Load protection
- Earth Leakage Relays
- Under & Over Frequency monitoring
- PTC Thermistor & Equipment Room Temperature Control Relays
- Liquid Level Controllers
- Certifications:   



Product Range



SM 175

- Multi-Voltage: 3 Phase 3 Wire @ 208-480 VAC and 3 Phase 4 Wire @ 120-277 VAC
- Can be configured for 3 Phase 3 Wire or 3 Phase 4 Wire system
- Protects against Phase Loss, Phase Reversal & Phase Asymmetry
- Selectable Under Voltage/Over Voltage & Asymmetry
- LED Indication for all Faults & for change in settings during run time for better security
- Adjustable Time Delay
- 1 C/O Configuration



SM 301

- 3 Phase 3 Wire @ 415 VAC
- Protects against Phase Loss, Phase Reversal & Phase Asymmetry
- No Auxiliary Supply needed
- 1 C/O & 2 C/O Configurations
- Available with Non-Fail Safe feature



SM 500

- Can be configured for 3 Phase 4 Wire or 1 Phase system
- Protects against Phase Loss, Phase Reversal, Phase Asymmetry & Neutral Loss Protection
- Selectable Over Voltage/Under Voltage Trip level
- Selectable Time Delay
- LED Indications for Power and Fault conditions
- 1 C/O or 2 C/O Configuration



SM 501

- 3 Phase 3 Wire @ 220/415 VAC
- Protects against Phase Loss, Phase Reversal & Phase Asymmetry
- Selectable Under Voltage/Over Voltage Trip level
- Selectable Time Delay
- LED Indications for Power and Fault conditions
- 2 C/O Configuration



Phase Indicator

- Available for Single, 2 & 3 Phase indications
- Choice of four colours
- LED technology for long life
- Integrated front product labeling



Frequency Monitoring Series PD 225

- Wide Auxiliary Supply voltage Range: 110-240 VAC, 220-440 VAC
- Monitors Frequency of Three Signals-Sine, Square & Triangular
- Over Frequency and Under/Over Frequency Monitoring
- Frequency Limit Control: 5 Hz to 135 Hz
- Wide Signal Input Voltage: 15 to 500 VAC
- Adjustable Relay status



Product Range



Earth Leakage Relay Series CMR

- Wide Auxiliary Supply Range: 110-240 VAC/VDC, 220-415 VAC/220 VDC
- Monitors, Detects and Protects Power systems from Earth Leakage Faults
- Wide range of selectable Earth Leakage Current: 30 mA-30 A
- Configurable Earth Leakage Trip time: 0-10 s
- LED Bar graph for Leakage Current indication
- 2 C/O Configuration
- Available in DIN mount & 96x96 mm flush mount



CBCT

Available in 38 mm, 57 mm, 70 mm, 92 mm, 120 mm, 210 mm



PTC Thermistor Relay Series PD 225

- Wide Auxiliary Supply Voltage: 24 VAC/DC, 110-240 VAC & 220-440 VAC
- Monitors & Protects Motors with Integrated PTC Resistor sensors
- Protection against Over heating for Heavy duty load, High switching frequency, High operating temperature & Insufficient cooling conditions
- Thermistor Relay combined with Protection against Phase Sequence, Phase Loss & Phase Asymmetry Faults
- LED Indications for Healthy, Unhealthy, Sensor Open/ Short conditions
- 1 C/O & 2 C/O Configuration



Liquid Level Controller

- Fully Automatic operation enabling both draining and filling simultaneously with a single device
- Adjustable sensitivity level from 1k to 200k Ohm
- Includes provision for Manual start
- Protects pumps against dry running and prevents overfilling to ensure trouble free operation
- Specially designed corrosion and shock resistant sensors (SS304)



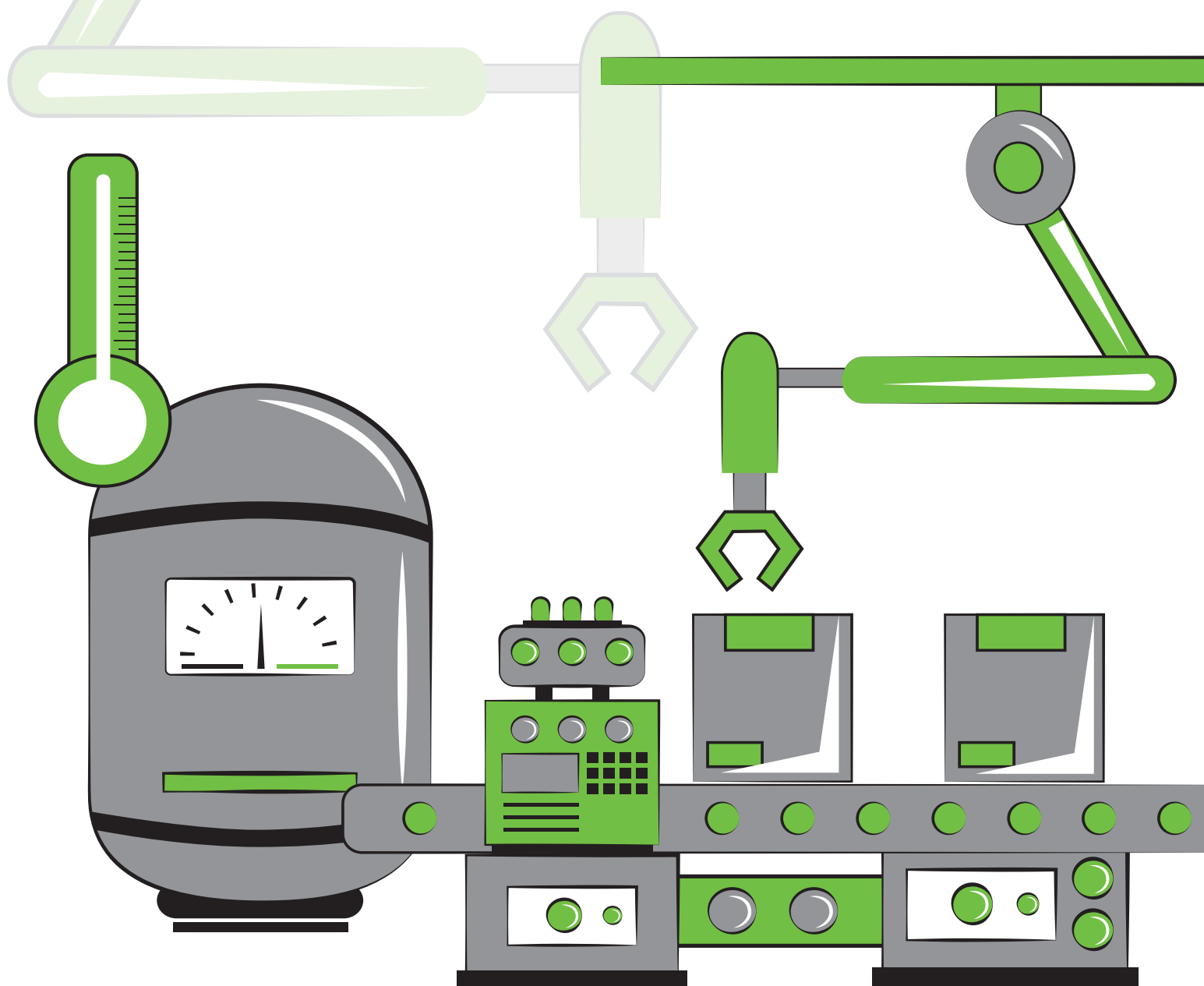
Current Monitoring Series CMR-Current Control

- Models for 1 Phase & 3 Phase systems
- Protects against Overload, Phase Reverse, Phase Loss & Phase Unbalance faults
- Wide Range of Sensing Current: 0.5A-45A
- Inverse Time model with Underload, Locked Rotor Protection & Selectable Trip Class
- Definite Time model with Underload & selectable Start & Trip time
- Auto/Manual Reset selection
- Fail-Safe Protection



Equipment Room Temperature Control Relay

- Provides protection against variations of the ambient temperature (min/max) in equipment or lift rooms
- Suitable for use in Traction and Hydraulic Lift Types
- Supports an External sensor module
- LED Indication for Relay Trip & Power ON



Applications of Temperature Controllers

Injection Molding Machinery, Extruding Machines, Furnaces, Food Processing Equipments, Packaging Machines, Textiles Machines & Industrial Machinery which use Paint, Glue and Plastics



TEMPERATURE CONTROLLERS

Key Products

PID Temperature Controller Series PR 69, Temperature Controller Series PR 43, Temperature Control Relay, PT-100 Temperature Control Relay.



151H43B1



151G11B



41A111AR





47A3D412

Features

GIC manufactures Dual & Single Acting PID, ON-OFF Temperature Controllers along with a DIN mount Temperature Control Relay & dedicated PT-100 Temperature Controller. Temperature Controllers control temperature by taking an input from a temperature sensor such as a thermocouple or RTD, and providing an output to a control element in order to reach or maintain a required temperature or setpoint. It compares the actual temperature to the desired temperature or setpoint, and provides an output to a control element such as a heater or cooler.

Our range includes:

- Universal Sensor Input
- Single/Dual acting PID controllers with 5 Control modes
- Auto-tuning PID with provision for Soft-Start & 6 Segment Ramp-Soak profile
- RS 485 Communication
- Wide ambient temperature monitoring & controlling range with inbuilt temperature sensor
- Two analog outputs of 0 to 10 VDC for PT 100 Temperature Control Relay
- Certifications:   RoHS Compliant



Product Range



PID Temperature Controller Series PR 69

- 110-240 VAC, Thermocouple: J, K, E, S, B, R; RTD: PT 100-3 wire compensation sensor input
- Analog Signal DC: (0-50 mV, 0-60 mV, 12-60 mV), (0-5 V, 1-5 V, 0-10 V, 4-20 mA)
- Configurable: Band, Deviation, Sensor break & Loop break alarms
- Single/Dual acting PID controllers with 5 Control modes with RS 485
- Auto-tuning PID with provision for Soft-Start
- 6 Segment Ramp & Soak profile with Power Failure resumption modes
- Control Output: Relay, SSR & Analog Output
- Available in 48x48 mm & 96x96 mm models



Temperature Controller Series PR 43

- 110-240 VAC, Thermocouple: J, K; RTD: PT 100-3 wire compensation sensor input
- Control Modes: Proportional, ON-OFF Asymmetric, ON-OFF Symmetric
- Control Output: Relay & SSR Drive
- Highly Accurate Performance



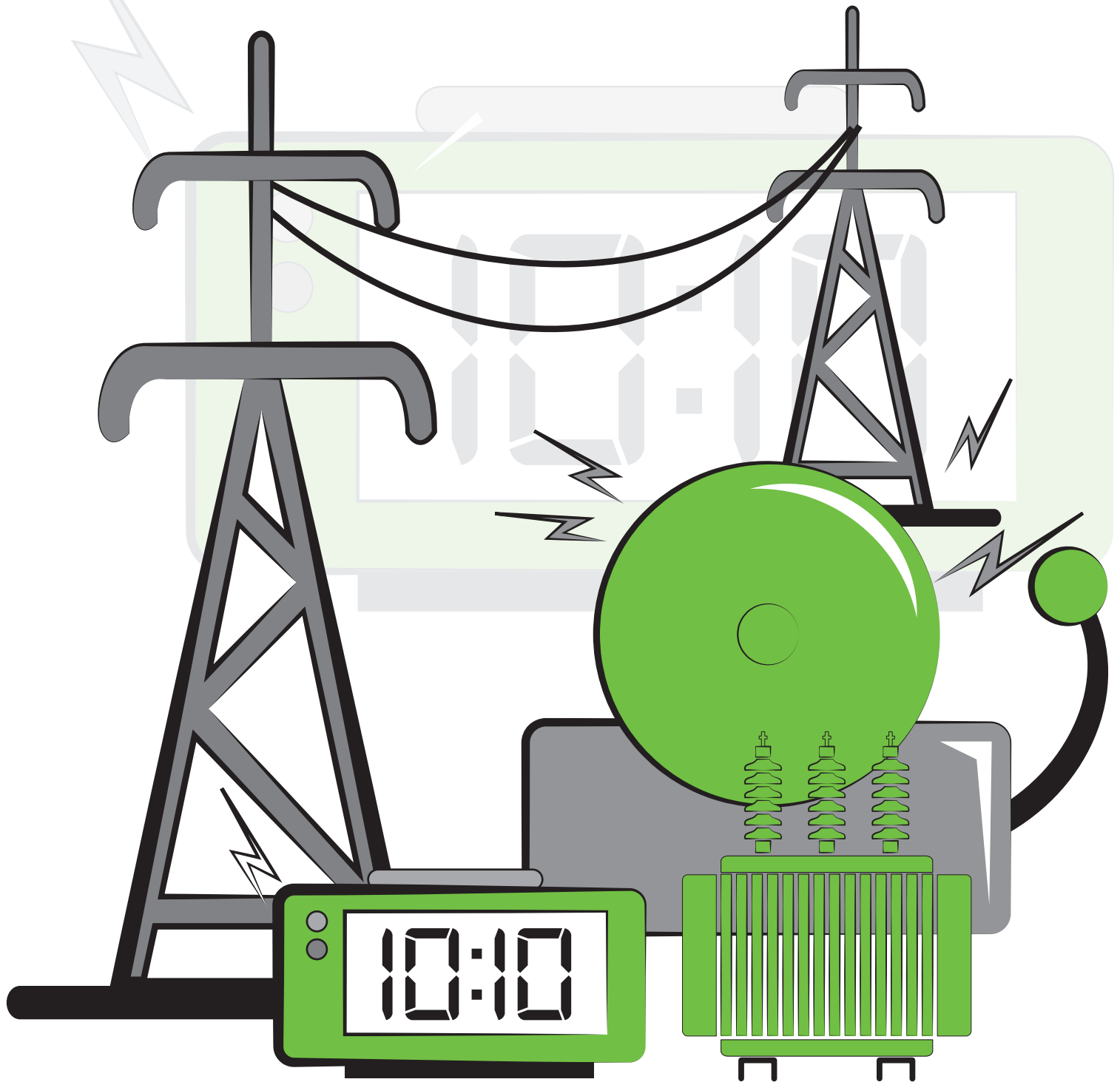
PT-100 Temperature Control Relay

- Wide operating Supply Range 24-240 VAC/DC
- Adjustable wide temperature range from -50°C to 300°C through DIP switches
- 2 analog outputs of 0-10 VDC
- High load switching capacity of output up to 10A
- LED Indications for power ON and relay ON status



Temperature Control Relay

- 110-240 VAC, Inbuilt Temperature Sensor
- Wide ambient temperature monitoring & controlling range with inbuilt sensor
- Protection against variations of ambient temperature with respect to the set point (StH & StL)
- 3 digit LCD display for real time Temperature Indication
- User adjustable offset (-10°C to +10°C)
- LED indication for Relay Trip



Applications of Alarm Annunciators

Transformer Panels in Substations, Transmission & Distribution Panels, Process Instrumentation Panels, Alarm Indication Panels, Fire Alarm Panels



ALARM ANNUNCIATORS

Key Products

Alarm Annunciators



AU2D91



AU4D30SP

Features

With increasing automation at every stage in a process control system, our Alarm Annunciators with the most advanced features, would play a vital role in immediate fault recognition by providing instant visual and audible alarms to protect valuable equipment. However simple or complex your alarm requirement, our Alarm Annunciators will provide the most cost-effective solution.

Whenever there is a change of input contacts from Normally Open to Close position or from Normally Close to Open position, the annunciator changes from rest condition to alarm condition. Hence there is an immediate recognition of fault input which will have a corresponding visual and audio alarm as per the particular selected program sequence.

The base unit of an Alarm Annunciator has four programmable keys for Mute, Acknowledge, Reset and Test function. On pressing the Mute key, the internal buzzer can be deactivated. The Acknowledge key is used to accept the fault condition. The Reset key enables to reset the Alarm Annunciator to its default state and the Test key helps to perform the complete test of the system.

Certifications:   Compliant



Product Range



Alarm Annunciators

- Standard models available from 2 to 32 windows
- Choice of 3 window sizes (Small, Medium, Large)
- Available in six window colours- Red, Yellow, Blue, Green, Amber and White
- Optically isolated fault inputs with wide fault input voltage range (12-240 VAC/DC +/-10%)
- Field selection for NO/NC fault input contacts, grouping of alarms, window size configuration
- Space saving due to lower depth of only 100mm
- Integral push buttons for Test, Acknowledge, Mute and Reset operations
- Four SPDT relay outputs (2 for grouping, 1 for external hooter, 1 for ring back sequence)
- Low power, super bright White LEDs for window illumination
- Replaceable windows and window legends
- Low power consumption of 0.5 W per window
- Replaceable LEDs, Fast Scan, Manned/Unmanned, Supervisory Relay & Supply fail annunciation available
- 6 Field selectable operation sequences as per ISA standard
- Integral buzzer for audible alarm output of 90 dB
- Communication interface with RS485 Modbus RTU protocol
- EMI/EMC compliant as per IEC standards

*Note- Live product configurator and enquiry request form available on our website: www.gicindia.com

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Visit our website: www.gicindia.com**