

Mimic Components Company Profile

Company History

Mimic Crafts was started in 1971 as a manufacturer of Mimic panels. Over the years the company built up expertise in other areas including control desks, component manufacture and display electronics. It also imported and resold a wide range of control and indicating components.

The Components business grew to be larger than the Mimic business, it was decided to rationalise and operate one company called Mimic Components cc which incorporated a Crafts division

Crafts Division

Crafts offers a wide range of Mosaic Tiles (including an aluminium grid system). Apart from mosaics, we also produce excellent photo anodised aluminium face plates.

We boast large bed computerised engraving facilities and fully equipped cad facilities for our engraved mimics. We also pioneered the revival of rear engraved perspex mimics using new materials which cut cost without compromising quality.

Crafts also manufactures superior quality consoles which are aimed at the 'up' market segment geared towards prestige control rooms. Control desks are tailored to customer specifications and specifically made to house computer based systems.



Fig. A shows the convenience of fitting monitors directly into our mosaic (Hong Kong airport bridge)



Fig. B shows the practicality of our tailor made console desks (rail control)



Adda 8 Alarm Annunciator

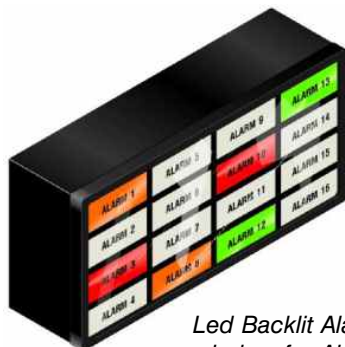


Elite Semaphore

Fig. C shows some of the many components we have in our range of products



Modbus Instrument System



Led Backlit Alarm window for Alarm annunciator

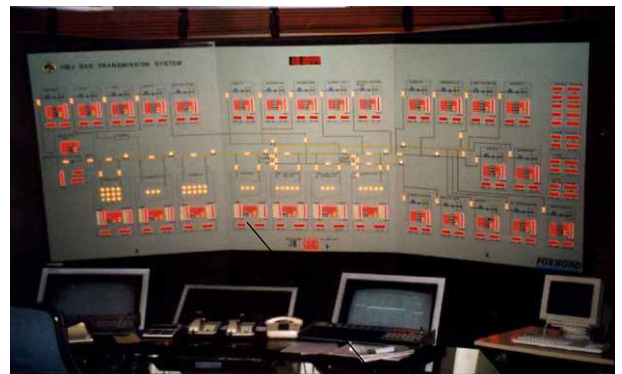
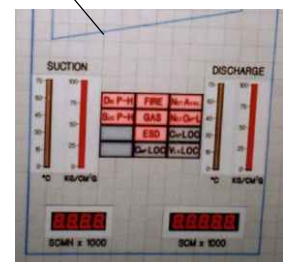


Fig. C shows a large mimic supplied to India with bar graphs, digital displays, status leds and alarm windows, all driven by modbus. This is part of a large project where four mimic panels will be updated by signals from central control via satellite link.



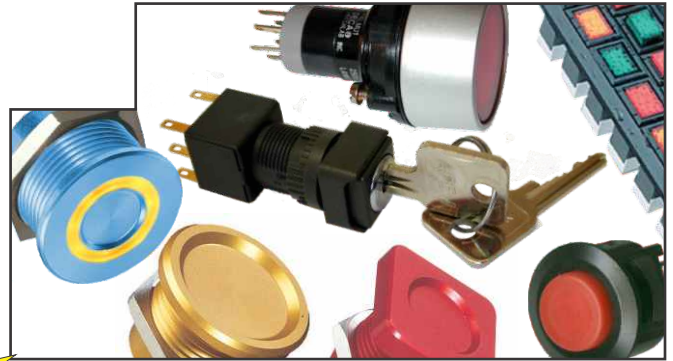


AUDIBLE & VISUAL WARNING DEVICES

- Low cost Piezzo Buzzers
- Economic & Industrial Sounders
- Marine & Explosion Proof Sounders
- Modular Tower Lights
- LED Beacons & Robot Lights
- Strobe & Rotary Lights
- Aircraft Warning Lights
- Motorised Sirens

FULL RANGE OF:

- Selector Switches
- LED Pilot Lights
- Pushbuttons
- Key Switches
- Emergency Stops
- Vandal Proof Switches
- Discrepancy Switches
- Piezzo Electric Switches



NEW



NOVUS FIELD LOGGER

- Data Acquisition RTU Recording & Alarming
- 8 Channels (Universal Analog)
- 8 Channels (Digital I/O)
- Expandable via Modbus & Ethernet
- Acts as Webserver
- Remote Access via Ethernet

Website: www.fieldlogger.net

OTHER NOVUS PRODUCTS

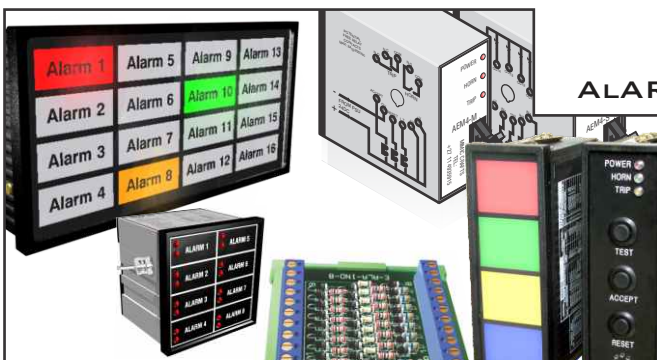
- Controllers - Loop, Temperature etc
- Transmitters - Std & Isolated
- Data Loggers
- Thermostats Heating & Cooling
- Temperature & humidity Sensors
- Remote Inputs & Charting Software
- Scada Software

PANEL METERS & LARGE DIGIT DISPLAYS

- Budget Economy Panel Meters
- System 5 Digit Process Indicators
- Loop Powered Scaling Meters
- Modbus Indicators, Loggers & Transmitters
- Big Digit Displays (100&180mm)
- BCD Indicators
- 5 Digit Process Indicator



ALARM ANNUNCIATORS & DISPLAYS



- 4-Way Modular System
- 4,8 & 12 Way Systems
- 16-Way Tri-Colour Backlit LED Display
- Expandable 16-Way MLT16
- 4-Way Alarm Cards (expandable)
- Simple 8-way Alarm Card
- 11-Pin Plug in Type (4-way expandable)

MIMIC COMPONENTS DIVISION - Locally Manufactured Components

Their expertise and experience was in supply of operator interface equipment including switches, Pilot Lights, Alarm Annunciators, Digital Indicators, Large Digit Displays, Modbus (RS485) driven Master Clock System and Monitoring Systems etc. Typically as shown below. (Put in products as marked)

WDCLK.... Big Digit Clocks & Counters



APM4060 Big Digit Display



This range of clocks/counters have been designed specifically for the industrial market for time and counter applications. These modules can be supplied with six digits up to 180mm high and with count/time backup on power failure. All inputs are isolated via opto-couplers giving the units flexibility with regards to the input voltage.

APMR Apollo Plastic Modular Robots



- Modular Assembly
- Fibreglass reinforced Nylon (P.A.)
- Led Lamp 12 or 24V, 110 or 220V
- 110-220V Filament
- LED daylight visible + 50 000 hours life expectancy
- All fixings are exterior to the lamp housing chambers.
- Wiring channel with knockouts
- Cable gland supplied to maintain (IP65)
- 4 way, 3 way, 2 way or single unit options available

ERS22 Elite Low profile Semaphores

- Ø22mm
- 24, 32, 60, 110 & 220V DC Only
- Direct connect
- Colours: Red (Large bar), Deep Green (Side bars).
- Other colours on special order
- Current: 4mA



ADDAvue Series A & B Alarm Annunciator Windows



LED backlit Indicator System for use with PLC, MULTI 16 or AEM4. Tri-colour indicator windows, Modbus version also available.

- Colour selection by jumper or software (Red/Green/Amber)
- Removable terminals
- User laser printable indicator window inserts
- Fully solid state - life expectancy > 150 000h
- Standard DIN size bezel (96x192) & cutout size (90x183)
- Common negative & common positive versions
- Built in lamp test

Gateway - AirGate-GPRS*

Applied in M2M (machine-to-machine) communication, **AirGate-GPRS** enables a Modbus RTU network to be monitored by more than one master. A remote master communicates using Modbus TCP through the Internet, reaching **AirGate-GPRS** through its GPRS connection to the cloud. A second master can be locally connected to a SCADA system using the USB port. One of its RS485 ports can be configured as a slave and connected to a third master, like an HMI, or like a master to start a new Modbus network segment with additional slaves. The other RS485 port will always connect to the main RS485 network segment, containing only slaves. Routing and multiplexing Modbus packets through its four communication interfaces adds innovative functionalities with minimum performance loss.



*Available from July/2012

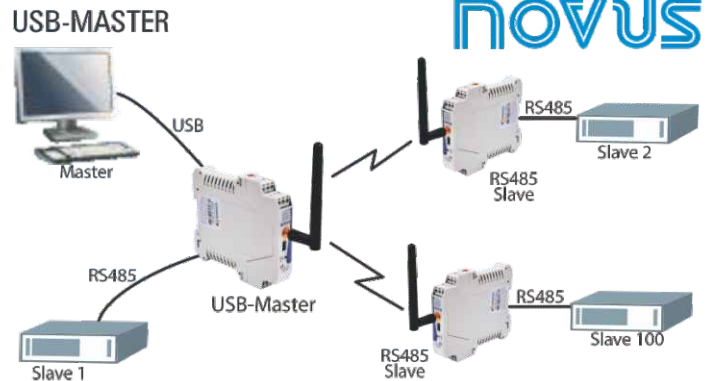
- Connects to a cloud based gateway through its GSM/GPRS interface, enabling remote access to Modbus slaves connected to local interfaces
- Fully compatible with NOVUS M2M Gateway for monitoring and storage.
- USB port allows PC connection as a virtual COM port.
- Isolated USB interface: 2 kV
- Two configurable RS485 interfaces (baud rate, parity and stop bits)
- One RS485 is always a Modbus master and the other can be set as master or slave
- RS485 baud rate from 1200 to 115200 bps
- Worldwide GSM compatibility; quadri band
- Authentication to the remote gateway to increase security
- Sends SMS as alarm or event notification
- Free configuration software
- Two inputs, configurable as analog (4-20 mA or 0-10 V) or digital
- Includes an antenna with magnetic base and 3m cable
- ABS enclosure for DIN rail mounting
- Enclosure protection index: IP40
- Certification: CE, ANATEL
- Power supply: 10 to 35 Vdc

OPTIONAL:

- Cable less antenna



Gateway AirGate-Modbus



AirGate-Modbus is a wireless multi-functional gateway that allows the transparent and easy insertion of wireless branches into existing wired RS485 networks. The AirGate-Modbus has four operation modes, Modbus Master, multiplexer, USBRS485 converter and simple wireless RS485 extension. A proprietary protocol based on IEEE 802.15.4 facilitates operation in Star mode, allowing the connection of several wireless segments to an existing Modbus RS-485 network.

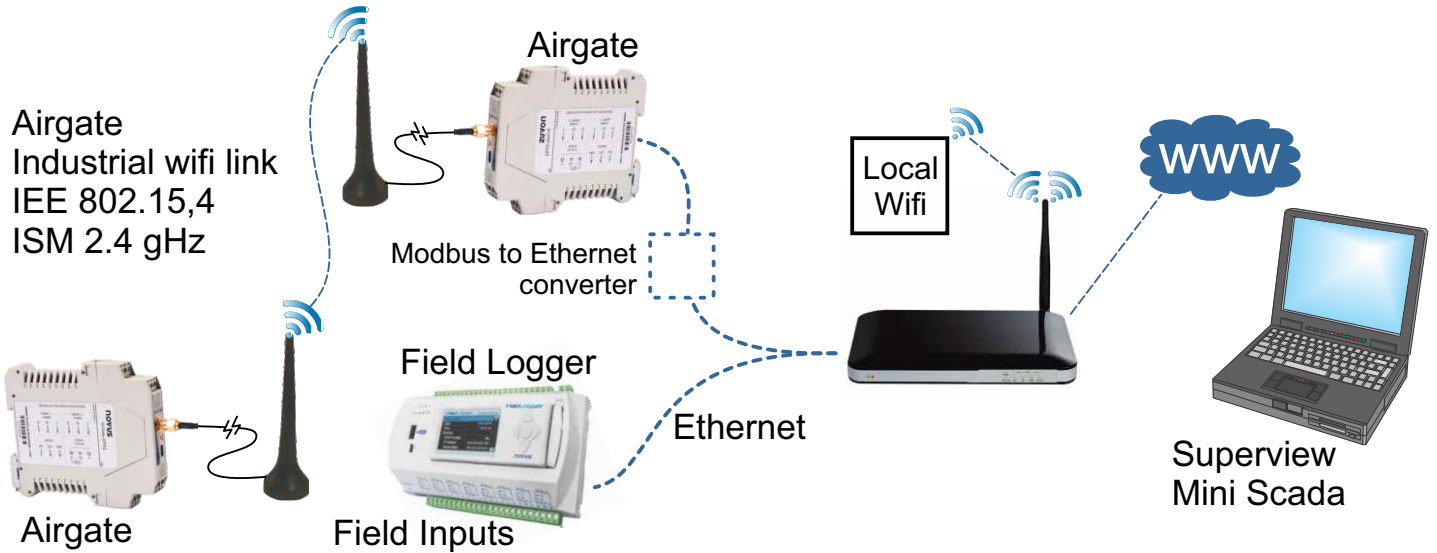
Features

- Allows 4 operating modes: RS485-Master, RS485-Slave, USB-Master and Multi-Master
- RP SMA female connector (Plug)
- Antenna gain 2 dBi
- Two RS485 connector for Modbus RTU interface
- USB Device (Mini-B)
- Status indication LEDs
- Advanced Encryption

Specifications

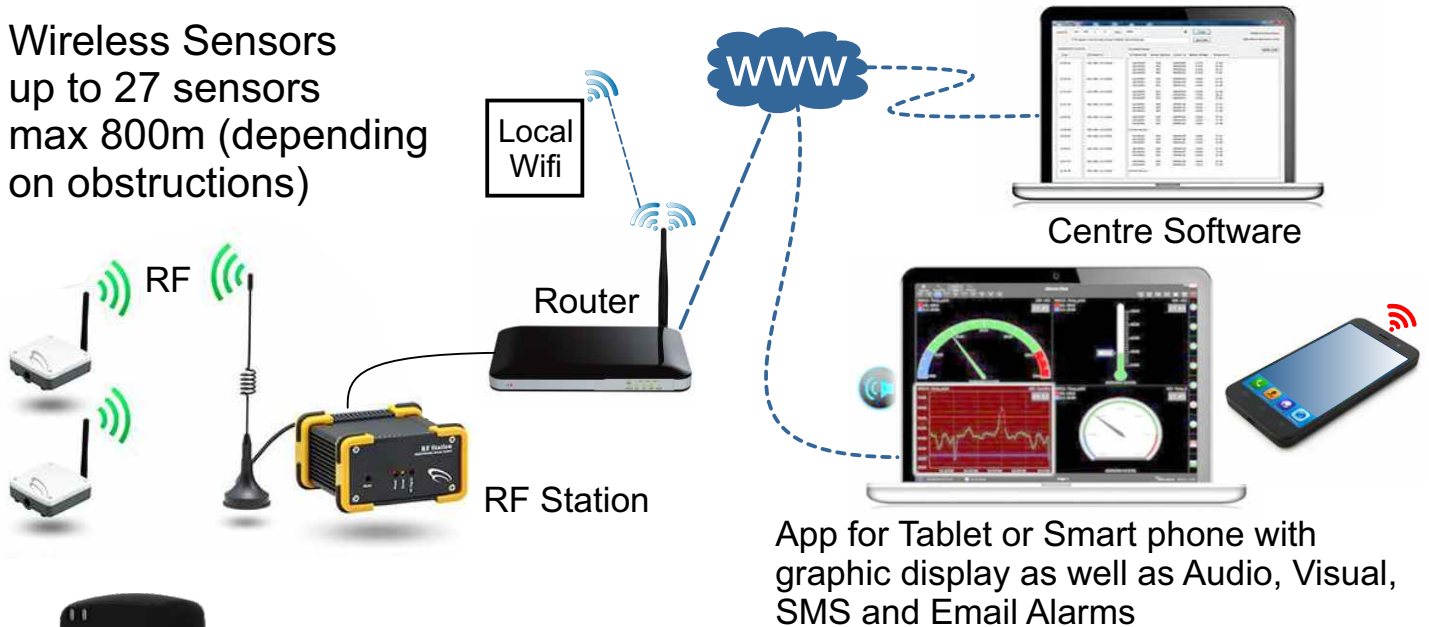
- Operating band ISM 2.4GHz
- Star network topology operation
- Up to 16 operating channels
- Maximum transmission power up to 100 mW
- Indoor range up to 100m and 1000m outdoors (with external antennae, could be up to 30km)
- RF data rate up to 250 Kbps

INDUSTRIAL DATA LOGGING & MONITORING



ECONO LOGGING & ALARM SYSTEM FOR FARMS, ETC

Wireless Sensors
up to 27 sensors
max 800m (depending
on obstructions)



EL-GFX-1
Temperature Data Logger with
Graphic LCD Screen

DATA LOGGING, MEASURE & DISPLAY

USB DATA LOGGERS
EL-USB- direct download
to pc available for Temp,
Humidity, CO² with and without
LCD display



note: IP65 cover



EL-WiFi-TH
WiFi Temperature &
Humidity Data Logging
Sensor

EL-DATAPAD
Handheld Programmer and Data
Collector for EasyLog USB range



CRAFTS DIVISION

Alutech Desks & Consoles

The **ALUTECH** system is an aluminium extrusion system designed to manufacture a wide range of products, including consoles, desks, wall-mount enclosures, and floor-standing enclosures. The consoles, desks and enclosures are all custom-built to the customer's requirements and specifications, i.e. the shape, size and colour are all decided and approved by the customer. The designs can either be supplied by the customer, or our in-house design team can create a design to accommodate the customer's needs. The products are assembled as a space-frame with "captured" infill panels. The space-frame is bolted together with high tensile grub screws in such a way that all threads are bearing on steel and never on the softer aluminium frame. This construction technique is far stronger than wood joints and ensures a long-life, rigid structure. The **ALUTECH** system is 19" rack compatible. It is modular and can be disassembled for shipping and delivery and can also be extended and modified for future growth. A wide range of colours and finishes are available for both the space-frame and infill panels. This variety of options is guaranteed to satisfy even the most meticulous customers. The final products have an attractive finish and are suitable for both the commercial and industrial environments. They also stand up extremely well in those environments, compared to veneered chipboard alternatives. It is important to establish the required access to the console/desk being designed, before it is manufactured. The **ALUTECH** system has a unique advantage when consoles/desks have to fit against walls or in corners of rooms. Front or side access can easily be achieved. Another important factor is the available access to the room where the console/desk will be installed. Sometimes, where there is only a single door access, the product needs to be split/disassembled to get in to the room. This is an important factor during design.



Wide range of custom design options, infills and accessories available.



CRAFTS DIVISION

Mosaic Mimics & Tile System

THE **MOSAIC MIMIC** HAS ADVANTAGES IN THAT IT CAN BE **UNLIMITED IN SIZE**, IS EXTREMELY STURDY AND INDIVIDUAL TILES CAN BE **CHANGED** AFTER THE MIMIC HAS BEEN COMPLETED.

THE SYSTEM

The 'MASTERTECH' System is composed of modular elements. The graphic display is on tiles which are plugged into a grid constructed from interlocking long and short sections. As both tiles and grid are made from polycarbonate (Makrolon) which is a stable heat resistant material, they have matching expansion characteristics.

THE MIMIC (GRAPHICS)

All artwork is computer generated directly from approved cad drawings. This produces superior quality, exactly as per drawing. CAD information is kept on computer and extensions can thus be done exactly the same as the original thus keeping the quality of installation at a high standard at all times.

All symbols, lines etc are totally engraved and the outline filled in black. This outline engraving improves the visibility, enhances quality and the engraving cannot be removed even with excessive cleaning.

THE GRID

The grid is assembled from interlocking dovetailed sections with staggered joints. This system provides a rigid and robust structure for the mimic panel. The grid incorporates fixing holes for fitting of P.C. Boards etc. The clear rear surface of the grid frame is ideal for neat fixing of wiring trunking etc. If parts are cut or removed to fit instruments, the mosaic grid can be replaced in small modules (2 x 4 tiles). Pre-punched strengthening channel is available for secure fixing with screws onto moulded holes. This is also ideal for fixing components onto the grid.

THE TILES

Tiles are available in 24 x 24, 24 x 48 and 48 x 48mm in light grey and black. Tile attachment is symmetrical so they can be rotated through 90°. The surface is anti-glare. Tiles (including the first tile) can be removed from the front using a special tool. Tile construction is extremely precise and size does vary by more than 0.03mm along any edge. The tile fits extremely well when assembled. Rear illuminated tiles are available in single section, double section and triple section illumination. (E.g. Run, stop and trip in 1 tile).

Suitable for any layout, from building fire alarms, conveyor control or Power and Water Reticulation and even highway management (GEC Hong Kong). Suitable for use with layouts that have infrequent changes. It is the more "Upmarket" way of producing mimics as all border units & flow unit borders can be filled in a different colour (Typically Black) to the internal colour, this results in bolder more visible mimic diagrams. Can also be used for mimics which require no colour except the black out lines.

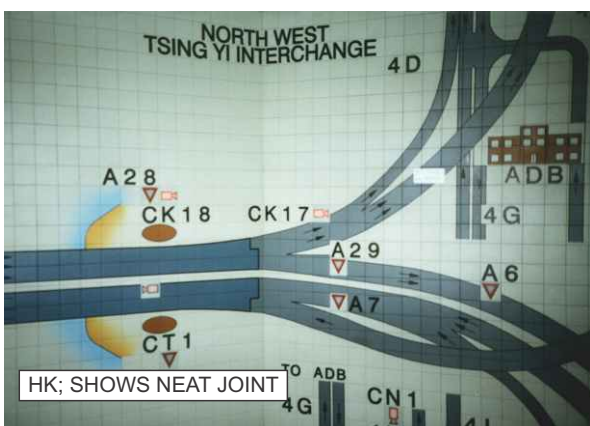
Size: Mosaic Mimics are unlimited in size



MAINS CONTROL HK AIRPORT



SEC SAUDI ARABIA



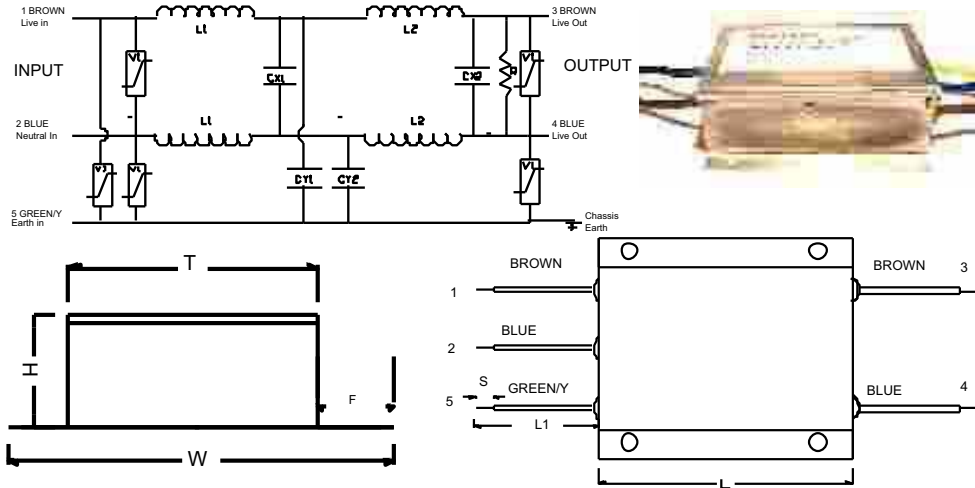
HK; SHOWS NEAT JOINT



DOHA SEWAGE WORKS QATAR

MAINS & SURGE FILTERS METAL BOX TYPE

These suppression Filters are designed to protect sophisticated electronic and electrical equipment from the spikes and surges of current and voltage overloads and from noise, from the A.C. Mains. They are used for computers, data processors, word processors, electronic cash registers, process control systems, laboratory and medical equipment etc. These filters are supplied as discrete units and are designed to be incorporated into a variety of built-up configurations such as protected mains socket outlets, or protected feed-thru units for permanent connection to the A.C. mains. The circuit diagram of a typical Surge-suppression Filter together with a drawing of the Filter module is given below:-



Technical Data :

Manufacturing Standard. Manufactured TO BS 613 1977, ieee, std 587 Category B

1. RATED VOLTAGE 250 V.A.C
- 2 TEMPERATURE RATING :-10 c TO +85 c
- 3 EARTH LEAKAGE < 3.5ma
- 4 MAXIMUM IMPULSE CURRENT (8/20) see Dimensions Table
- 5 R.F. INTERFERENCE ATTENUATION: See Figure 1

DIMENSIONS

Rated Current Amps	Surge Current K/a	L	W	H	T	F	Mains Filter Only	Mains Filter & SP
5	20	82	73	29	53	9	M41/CL5	M45/CL5
5	50	82	73	29	53	9	M41/MH5A	M45/MH5A
10	20	101	77	31	58	9	M41/CL10	M45/CL10
15	20	101	77	31	58	9	M41/CL15	M45/CL15
20	20	101	77	31	58	9	M41/CL20	M45/CL20
25	20	101	77	31	58	9	M41/CL25	M45/CL25
30	20	110	77	35	58	9	M41/CL30	M45/CL30
40	30	110	77	35	58	9	M41/CL40	M45/CL40

Mounting and Connection:

Internal mounting :The surge filter should be mounted within the product to be protected preferably with the base on the chassis as the unit's earth is connected internally to the base.

External mounting : If it is mounted externally the leads should be connected in such a way that the joins are safe and not exposed. If the surge filter is exposed the Earth wire must be connected to avoid earth leakage currents on the metal housing to comply with safety requirements.

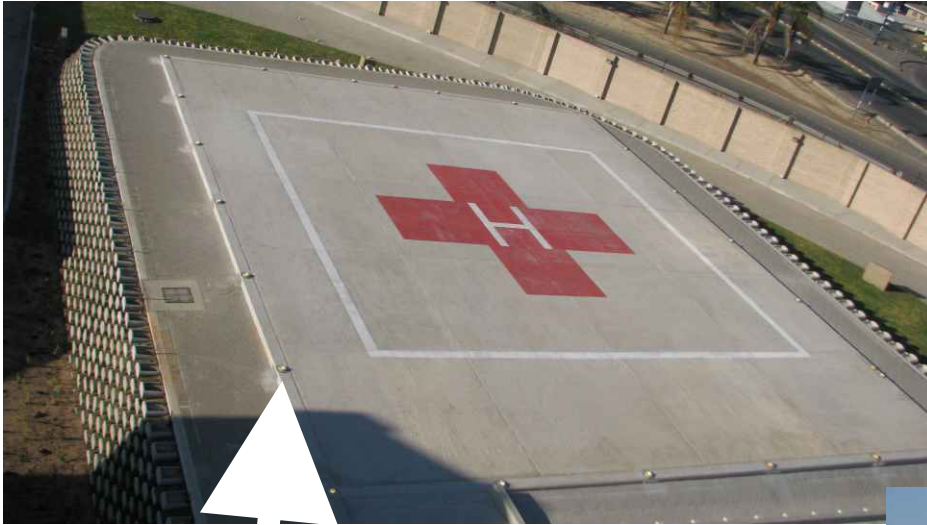
Connection to mains : The brown and blue wires on the side with the green and yellow wire should be connected to the incoming live and neutral respectively and the Green and Yellow wire must be connected to the earth.

Connection to equipment: The brown and blue wire on the other side should be connected to the equipment to be protected. Brown to live and blue to Neutral. The metal housing is earthed and should be connected to the product's earth lead.

The integral EMI/RFI filter provides high attenuation to interference signals in both common and differential modes. The design of special Spike-suppression Filters with improved parameters may also be considered

AVIATION LIGHTING AEROLED® RANGE

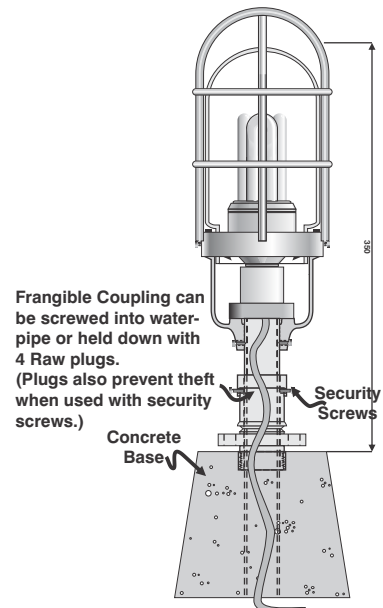
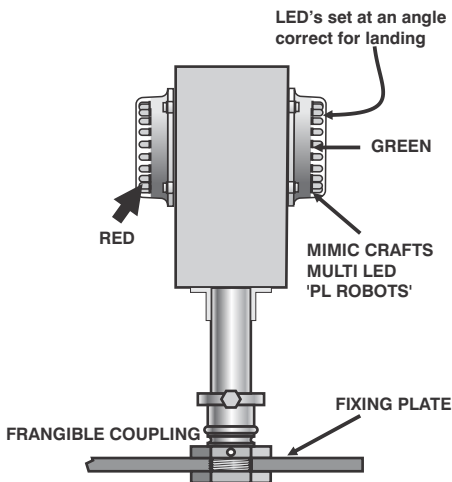
Recent Hospital complete Helipad and installation and certification



Windsock and Solar powered obstruction lights for pole



These are brand new LED powered helipad lights in which the LED's are totally encapsulated. They give off a bright white, red or green light which is highly visible and which needs absolutely no maintenance and 5 years of continuous operation without any maintenance at all. Encapsulation of the LED means that the water cannot ingress into the lamp-holder as happens with conventional helipad lights which need continuous lamp changing and maintenance as water ingresses into the lamp holder. A TRUE FIT AND FOREGET SOLUTION.





Introducing Panel Pilot Your fastest route to a graphics display



SGD 43-A is a 4.3" capacitive touch display designed for use with PanelPilotACE Design Studio, a free drag-and-drop style software package for rapid development of advanced user interfaces and panel meters.



The SGD 43-A is the first in a range of PanelPilotACE compatible displays and panel meters. The low-profile display features a 4.3" capacitive touch-screen and a Cortex ARM 9 processor running embedded Linux. The display can be powered from either USB or a 5 to 30V d.c. supply and offers users a wealth of hardware interfaces which include four 16bit bi-polar analogue inputs (to a maximum of $\pm 40V$ d.c.), eight digital input/output pins, two alarm outputs (maximum current sink 10mA) and four PWM outputs.



Above shows Mimic Components Reception and Sales staff.



Above shows a section of the factory used for NC engraving and light milling.



Above shows part of factory showing ALUTECH control desk under construction with one of our Control Room Clocks on the wall behind.



Above shows Mimic Group of Companies



17 Ramsay Street, Booyens 2091, Johannesburg P.O. Box 38493, Booyens 2016, Johannesburg, South Africa
TEL: (011) 689-5700 VOIP: 087 751-5000 sales@mimic.co.za www.mimic.co.za