



**Authorised Distributor in Asia Pacific Region for Trumeter Products**



# ***A well funded growing profitable Global Group***

**Connecticut, USA**

- Sales
- Manufacturing
- Engineering
- Distribution

**Florida, USA**

- Sales
- Distribution

**Manchester UK**

- HQ
- Sales
- Engineering
- Distribution

**Penang, Malaysia**

- Sales
- Manufacturing
- Engineering
- Distribution

Partners in more than 50 Countries

# ***Company Evolution***

## *Old Co'*

- 1937 Trumeter Company Started
- 1955 Opened Radcliffe Factory
- 1991 Acquire Trumeter Inc (USA)
- 1997 OEM Business starts
- 2004 Production starts in Malaysia
- 2007 Jaguar XF Console Production starts

## *New Co'*

- **Jan 2010 Company reformed as Trumeter Technologies Ltd  
New Investment, Strengthened Management Team**
- **July 2010 Company Moved to New HQ in Bury**
- **Sep 2010 Production Start up at modern newly constructed  
facility in Malaysia**
- **Aug 2011 Acquisition of Redington Counters in USA**
- **Nov 2011 ENTES Partnership signed**
- **Feb 2012 Relocate HQ to larger improved facility with storage area**

***Mission***  
***£50 million sales in 5 years, £30million in 3***

**TOTAL TEAM TRUMETER**

The Total Team Trumeter spirit is defined by one global team, driven by the best interest of our customers, investors and employees.

**COMMITMENT TO EXCELLENCE**

Through continuous improvement and working with integrity, and in true partnership with our customers and suppliers, we design and manufacture innovative products and services of world class quality, delivered on time.

**SUSTAINABILITY**

Our group will grow profitably and sustainably to ensure that we can continue to be the first choice supplier in our chosen markets for both core and special products.

## ***A Performance Culture***

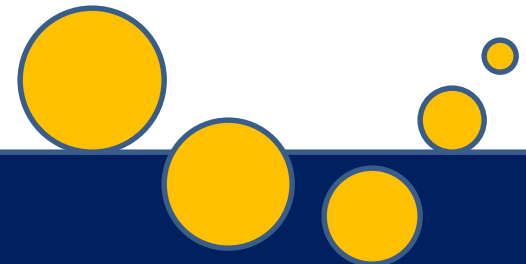
- Monthly briefings and reviews ensure common global objectives and standards
- Annual appraisals with pro-active training plan
- Performance appraisals form the basis of Director pay
- Manufacturing scorecard ensures key objectives flow through the production teams to each individual operator
- Innovation and Continuous Improvement are in everything we do
- A listening company that is customer focussed



## **INNOVATIVE DESIGN TECNOLOGIES SDN BHD**

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Penang, Malaysia



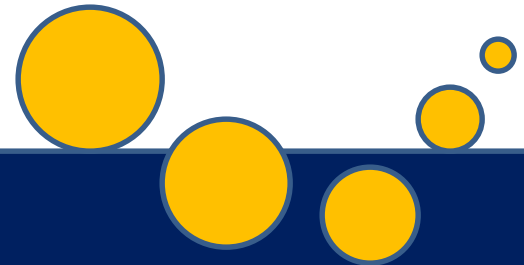


## **Innovative Design Technologies Sdn. Bhd.**

(IDT) started its Incorporation in September 2010 as one of specializes measuring products and automotive lighting designer and manufacturer in Penang, Malaysia with an area of 21,000sq. feet and total amount of investment up to 5 million Ringgit Malaysia. With over 200 skilled employees and a monthly capacity of 250,000 pcs of various model of Light Fittings.

Currently IDT is acknowledging as one of the quality export suppliers of counting instrument in US, Europe and other Asia Pacific countries.

In line with our company's stringent quality control, we are certified with ISO 9001:2000 Quality Management System. Our products are developed to exceed expectations and international standards.





## About Us.

Innovative Design Technologies Sdn. Bhd. is a global manufacturer and distributor of sophisticated measurement instruments (Core Products) and LED lighting products, fluid dispensing measuring and metering products, for a diverse range of applications, (Special Products).

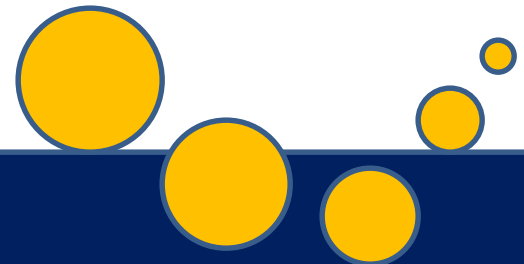
Innovative Electronic Measurement devices and LED Lighting Systems

Turnkey EMS with ODM capabilities

ASIC Design and electronic miniaturization

Ultra low power circuitry

**Automotive • Industrial • Consumer**





## Facilities & Capacities.

The production facilities operates with 150 people.

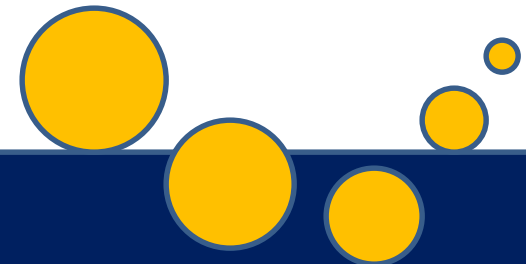
- \*Die attach and wire bond (Capacity - 250 million pa)
- \*Surface Mount (Capacity - 200 million pa)
- \*Through hole and multi-task assembly
- \*Ultrasonic Welding
- \*Mouldings and metal work
- \*Multiple Assembly processes
- \*Test and validation



**Fuji automated SMT Machine**



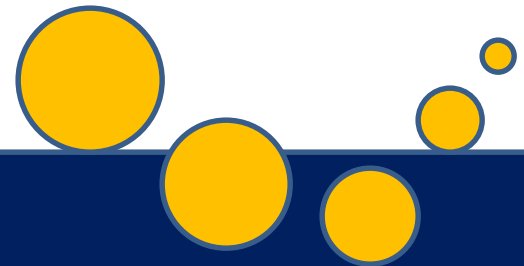
**Clean Assembly Line**



## **Quality Policy**

Innovative Design Technologies Sdn Bhd. operates an effective Quality Management System that ensures the products and services we provide fully meet our customer's exact requirements. We have adopted a continuous improvement culture to drive our performance higher, ensuring our ongoing achievement of increasing standards in customer satisfaction through :

- › Outstanding Customer Service
- › High Quality Products
- › On Time Delivery
- › A Competitive Cost



## An ISO Certified Company



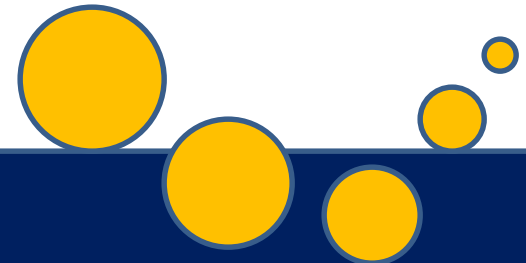
### Accreditation Summary

ISO9002 accreditation since 1993

ISO9001 accreditation since May 2002

ISO9001:2008 accreditation re-accreditation in  
March 2011

ISO TS16949 - In progress



# Trumeter Control and Measurement Product-Distance



# 5000 Road Measurer



## Product Features

- \*Robust Construction
- \*Reliable
- \*Choice of Professionals
- \*World Class Quality

## Customer Sectors

- \*Land Surveying
- \*Cable Laying
- \*Police, Accident Investigation
- \*Building Contractors / Suppliers
- \*Golf Courses
- \*Sports Pitches



# 5500 Measurimeter



- Product Features

- \*Economical
- \*Mechanical & Electronic Versions
- \*Easy to Carry
- \*Adjustable Handle Length

- Customer Sectors

- \*Domestic
- \*Toolkit Product
- \*Surveyors
- \*Accident investigators
- \*Health authorities



# Land Measurer 5041-511

*LAND 4x4  
MEASURER*

- Product Features

- \*Super Robust Construction
- \*Large Wheel, Heavy Duty Tyre
- \*Ideal for Rough Terrain
- \*Large Counter Display

- Customer Sectors

- \*Farmers
- \*Sports Pitches (Olympics)
- \*Military
- \*Land Agencies



# Rail Track Measurer 5061-511

**RAIL TRACK**  
MEASURER

- Product Features

- \* Super Robust Construction
- \* Non Slip Wheel
- \* Side Plates for Stability
- \* Dual Reading Available
- \* Designed with British Rail

- Customer Sectors

- \* Rail Companies
- \* Rail Contractors
- \* Maintenance





## Model 07 Heavy-Duty

**Figures :** 5 figures, .19" high

**Reset :** Rotary knob

**Warranty :** Lifetime

**Weight :** 3.6 lbs. with stand

3.0 lbs. without stand (3 ft. or 1 m. models only)

**Extended Size :** 40"

**Storage Size :** 3 ft. & 1 m: 26"; 4 ft: 24"

**Wheel Size :** Wheels are identified by their circumference.

4 ft. wheel has a diameter of ~15.3 in.

3 ft. wheel has a diameter of ~11.5 in.

1 m. wheel has a diameter of ~32 cm.



## Model 07 - Medium-Duty

**Figures :** 5 figures, .20" high

**Reset :** Push Button

**Warranty :** Lifetime

**Weight :** 1.2/1.4lbs (Single/Double)

**Extended Size :** 44" (curved handle),  
39" (straight handle)

**Storage Size :** 28" (curved handle),  
17" (straight handle)

**Wheel Size :** Wheels are identified by  
their circumference

1 ft. wheel has a diameter of ~3.8 in.

30 cm. wheel has a diameter of ~9.5 cm.



# Trumeter Control and Measurement Product-Electronics





# Digital Panel Meter

**951/ 952**

**3 1/2 digit LCD digital panel meter**

## **Features**

Low power consumption

10mm black character high contrast LCD display

Backlit version DPM951-T

24mm X 48mm bezel

5 or 9VDC operation

200mV full scale

Scaleable



# Totalising Counters

## **7000 / 7000AS**

6 digit LCD electronic totalising counter



## **7016**

6 digit LCD electronic totalising counter



## **HED251**

4 Digit panel mount counter 24 x 48mm



## **HED261**

8 Digit panel mount counter 24 x 48mm



# Totalising Counters

## **7000 / 7000AS**

6 digit LCD electronic totalising counter



## **7111**

8 digit self powered electronic LCD counter



## **7111HV**

8 digit self powered electronic LCD counter  
with high voltage input



# Totalising Counters

## **7400AS**

8 digit LCD bi-directional totalising counter for PCB mounting with push button reset.



## **7401AS**

8 digit LCD bi-directional totalising counter for PCB mounting



## Predetermining Counters

### 7922

6 Digit supertwist LCD programmable preset counter with 2 prescaler, quadrature input and EEPROM data storage in an IP65 Din case.



### 7932

6 Digit supertwist LCD programmable preset counter with 1 prescaler, quadrature input and EEPROM data storage in an IP65 Din case.



### 9100

Multi-function instrument is a multi-preset, totalising counter/ratemeter



### 878X

6 Digit predetermining counter with a 5 digit rate meter.





# Electronics Timers

**7511**

**8 Digit self-powered LCD electronic timer**



**7511HV**

**8 Digit self-powered LCD electronic timer with high voltage input**



**877X**

**5 Digit rate meter and process time indicator**



# Time Relays

## 7956

Digital LCD Din-rail mountable multi-function time relay with 8 operating modes and 8 timing ranges.



# Multi Purpose Counter

## Features

Reflective LCD Display with 8 large (8mm) digits  
Wide array of available functions

### Choice of one or two inputs

- \*Switch Input (No voltage)
- \*Low DC Voltage (3-30VDC)
- \*High Voltage (20-300VAC or 10-300VDC)

### Choice of control inputs

- \*External Electronic Reset
- \*Front Panel Reset Enable

Discrete Output (Open-Drain MOSFET)

### Power Options

- \*External with EEPROM
- \*internal 15+ yr lithium battery

### Optional Front Panel Programming

- \*3 Redi-Alerts
- \*Preset functionality

### Available factory programming

- \*4 Redi-Alerts
- \*Preset functionality

Tachometer measures up to 30,000 RPM



**Model 63**

- \*Frequency measurements for 50, 60, and 400 Hz applications
- \*Programmable scale factors for engine interfacing
- \*NEMA 4/4X, 12, and IP66 rated
- \*EMC Compliant to EN61326:2001 for industrial environments
- \*CE compliant, UL and cUL recognized
- \*European WEEE & RoHS Compliant

# Maintenance Meter

## Features

- \*Totally sealed from moisture and dirt
- \*AC or DC voltage input in the same unit
- \*Compact depth
- \*Programmable output thresholds (MOSFET)
- \*Preset Count value/Hour Meter
- \*Up to 3 Redi-Alerts/7 icons
- \*Fits in existing panel openings
- \*Always on display
- \*A choice of 8 housings
- \*A choice of reset modes
- \*Front panel programmable
- \*Preset Functions with output
- \*Can be programmed with starting time
- \*15+ Year Battery Life

## Model 34



# Trumeter Control and Measurement Product-Electromechanical





# Electromechanical Hour Meter

The model 710 AC hour meters and minute meters are widely used in panel applications where number size and visibility are critical. Its tough, Lexan bezel and distinctive styling enhance appearance and durability. Available in 5 figure reset or 6 figure non-reset versions.



**Model 710**

A 5 figure (reset) or 6 figure (non-reset), AC hour meter encased in a rugged steel housing. The non-reset models are completely sealed. Reset models are available, as are both wire lead and terminal block versions



**Model 720**

# Trumeter Control and Measurement

## Product-Length Measuring



# Measuring Systems

## Model 3602

### Mechanical Totalising Counter

6 digit 6.4mm (0.25in) readout

Up to 3000 counts per minute with 1:1 gear ratio

1:1, 1:10, 2:1, 3:1, 4:1 gearings as standard

Front viewing

Reset to zero

Reset by lever

Customer Configurable Reset



## Model 2300

Heavy duty measuring unit, dual measuring wheels for better stability and contact, frame/ bulkhead mounted



## Model 2401/2701

Heavy duty measuring unit, twin/single unit, stay rod mounted.





# Fabric & Carpet Measurement

## Model 3900B

**Robust, durable & accurate length measurement**

### ***TRUMEA/URE 3900***

- US Weights & Measures Approval
- Measures material up to 24mm (0.94in) thick
- Accommodates easily marked and/or abrasive materials (with special wheels)
- Accuracy 0.25%
- Accommodates pile up or no pile materials
- Optional encoder output
- Can be built into manufacturing & finishing processes



# Cable & Wire Measurement

## **Model 2600**

### **Cable, Wire & Rope Measuring Machine**

Heavy duty, multi-purpose measuring machine which measures the length of cable, wire, rope, hose, extrusions or continuous strip from 6mm (0.24in) to 76mm (3.0in) diameter.



## **Model 2620**

### **Multi Purpose Surface Length Measuring Machine**

This is pivot arm assembly only that rests on the “guided” materials to be measured. As well as cable it is suitable many materials such as steel, plastic and board.



## **Model 2630**

### **Multi Purpose Surface Length Measuring Machine**

This is pivot arm assembly only that rests on the “guided” materials to be measured. As well as cable it is suitable many materials such as steel, plastic and board.



## ***Power Quality and Energy Products***

- Network Analysers designed to measure electrical parameters of networks in industrial plants
- 27 products



- Power and Energy Meters are designed to measure the active, reactive and apparent power values and active and reactive energy values of a network
- 8 products



## ***Electrical Measurement Products (1)***

- Multimeters designed to measure the electrical parameters: current, voltage, frequency and  $\cos\phi$  in industrial plants
- 16 products



- Ammeters designed to measure the current values of networks
- 14 products



- Voltmeters designed to measure the voltage values of networks
- 14 products



## ***Electrical Measurement Products (2)***

- Cos $\phi$  Meter designed to measure the cos $\phi$  of the networks, and Frequency Meter designed to measure the frequency value of the networks

- 6 products



- Transducers convert the electrical signals on their input to analogue signals, and used with control and automation devices
- 3 products



## ***Power Factor Correction (1)***

- Reactive Power Factor Controllers designed to match the system's power factor which is defined as the ratio of the active power to the apparent power to the user defined power factor value by controlling the facility's reactive power using capacitor banks

- 13 products



- LV power capacitors are circuit elements which compensate the inductive reactive loads on a system

- 34 products



- Shunt Reactors designed to meet the inductive load demands

- 19 products



## ***Power Factor Correction (2)***

- Harmonic Filter Reactors used in serial connection with capacitor banks in power factor correction units

- 78 products



- Capacitor Duty Contactors designed for the control of capacitors in compensation panels

- 10 products



- LV Current Transformers are measuring transformers which transform the primary current by a specified ratio to its secondary side with a phase difference of 0 degrees. They provide isolation of the relays and measuring devices from the HV side of the network

- 23 products



- ENTES Ethernet Modbus Gateway is an Ethernet / RS-485 MODBUS network gateway, designed to enable communication with a PC via Internet(WAN) and Intranet(LAN)





## ***Protection and Control***

- Phase Failure(Motor Protection) Relays – 11 products
- Thermistor Relays – 2 products
- Phase Sequence Relays – 4 products
- Current Monitoring Relays – 4 products
- Voltage Monitoring Relays – 11 products
- Liquid Level Controller Relay – 1 products
- Time Relays – 15 products
- Astronomic Time Relays – 7 products
- Overcurrent Protection Relays – 2 products
- Photocell Relays – 5 products



## ***Production Facility - Asia***

Modern manufacturing facility in Malaysia

New modern purpose designed factory SOP Sept 2010

150 people manufacturing millions of electronic products

- Die attach and wire bond (Capacity - 250 million pa)
- Surface Mount (Capacity - 200 million pa)
- Through hole and multi-task assembly
- Ultrasonic Welding
- Mouldings and metal work
- Multiple Assembly processes
- Test and validation



Fuji automated SMT machine



Clean Assembly Line



Wire Bonding

- ISO9002 accreditation since 1993
- ISO9001:2008 accreditation since May 2002
  - Successful audits July 2010, March 2011, October 2011
  - Factory, Design & Engineering
- Sub-contractor and supplier control process
- International OEM Factory Audits
  - Brita , Flextronics, Hayco etc

## *Trumeter Group Summary*

- An innovative design partner with unique engineering and design capabilities
- Comprehensive product offering
- Low cost manufacturing with world class quality systems
- Financially sound growing business, with global sales across multiple business sectors

