



UGL Technology Systems offers customers a wide range of signalling, in cab, traction switchgear and communications products, utilising extensive local engineering and manufacturing capabilities together with access to a range of the world's best products.

The facility based in Milperra NSW manufactures, assembles and distributes these offerings. Additionally It has capability to perform advanced electronic repair of equipment.



The facility contains an environmental chamber for heat soak stress testing for electronic components to eliminate electronic 'infant mortality' of manufactured products.

## PRODUCT RANGE

### RAIL SIGNALS

UGL Technology Systems signal range accommodates Australian and International requirements. Our LED modules are designed and manufactured locally with strong local support. The signals have been supplied to local and international markets. UGL Technology Systems has capability to design and manufacture custom signal solutions. The signals capability includes the assembly of whole posts with bases and mounting brackets.



MK2 Mainline LED Signal



Don't Walk LED Signal



Stencil Indicator  
LED Signal



Junction Route  
Indicator LED Signal



Turnout Route  
Indicator LED Signal



Style 'L' Repeater  
LED Signal



Fibre Optic/LED Multi Light  
Theatre Route Indicator



Level Crossing  
Assembly



Mk3 Tricolour LED Signal



FL03 Railway Level Crossing LED Signal



#### UGL Limited

373 Horsley Road

Milperra NSW 2214

Phone: +61 2 9774 7787

Facsimile: +61 2 9771 6834

Email: [signalling.products@ugllimited.com](mailto:signalling.products@ugllimited.com)

[www.ugllimited.com](http://www.ugllimited.com)

## SOLID STATE INTERLOCKING

UGL manufactures SSI trackside functional modules (TFM) under license from Alstom for supply limited to Australia/N.Z markets. UGL has also developed complementary products such as the Data Link Interrogator to read the telegrams transmitted and received by TFMs, Optical Data Link Interface Unit for transmitting data through fibre rather than copper for added advantages in distance extension and noise immunity.



Signal Module



Optical Data Link Interface Unit



Data Link Interrogator



SSI Test Rack

## TRACK CIRCUITS

Distributed under agreement from Alstom, UGL is a supplier of the High Voltage Impulse track circuit (Jeumont Schnieder).



Track Circuit Test Setup



CV TH2 4.0.4



RVT600



EGT 600



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### IN-CAB PRODUCTS

UGL Technology System is able to supply a variety of in-cab products which have been listed below:

#### EVENT RECORDERS

Event recorders monitors train operation and driver actions, records the data and makes that data available on request for analysis off-train.



Mk2 Series Event Recorder



Mk3 Series Event Recorder

#### POWER SUPPLIES FOR RAIL HEADLIGHTS AND RAIN WIPERS

UGL Technology systems has the capability to design and supply power supplies for on-train equipment like train headlight and rain wipers.



Dual 280 Watt Headlight Supply



500 Watt Wiper Supply

#### SPEEDOMETERS

Speedometer is designed to monitor a train's speed in kilometres per hour (km/h). UGL manufactures both digital and analogue speedometers for locomotives.



ME-330 Speedometer



ME-250 Speedometer

#### INTERNAL EMERGENCY DOOR RELEASE SYSTEM (IEDR)

The Internal emergency Door Release (IEDR) MkII system allows egress via existing passenger doors on a rail vehicle during an emergency situation. This system has been designed and manufactured by UGL Limited and is currently supplied to the Sydney Trains OSCAR and Hunter fleets.



Passenger Control Unit



Crew Cab Interface Unit



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**OTHER IN-CAB PRODUCTS**

**Automatic Train Protection**

- Vigilance-Integrated ATP controllers
- Track-magnet detector heads
- Magnet sequence decoders
- Crew-cab indicators




AWS Indicators

Track Magnet Detector Head

**Train Speed Indicator**

- In use on Xstrata locomotives



FSK Modem

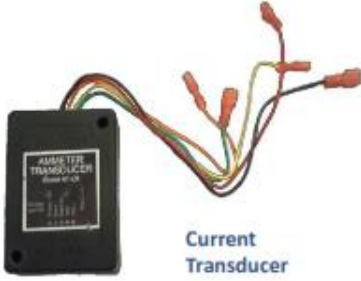
In-cab Touch-screen PC



Relay Delay Timer

**Epoxy-potted devices**

- Relay time delays
- Transducer attenuators and amplifiers
- Current sensing switches
- Transient suppression
- Pulse extenders



Current Transducer

**Audible devices**

- Digital annunciators
- Bells
- Sonalerts



Single-stroke bell

**Coils**

- Rewinds
- 3-phase AC chokes
- Transformers



Chokes

UGL acquired the IP of Fischer Industries Pty Ltd and now is the manufacturer and repairer of Fischer Industries products.



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### TRACTION SUBSTATION PRODUCTS AND RACK DESIGN

UGL has demonstrated experience in the complete design and delivery of electrical power projects, specifically in the rail industry for almost 40 years. In addition to the manufacture of DC traction substation equipment (rectifiers and DC switchgear), we also work with equipment from a number of varied manufacturers, ensuring we can consider and use the best equipment configuration.



5MW Rectifier



Electrical Substation Workshop



Substation Equipment

### TRAIN CONTROL – SIGVIEW & SIGMAP

UGL has designed dedicated control systems, the SIGView and SIGMap technology to deliver to users enhanced information such as train tracking, improved operator and passenger interface.

