

# Peripherals



- Remote Displays
- Keyboards
- Barcode Scanners
- Printers
- RF Communication
- Load Cell Simulators
- Summing/Junction Boxes
- Software Solutions



# High Performance

GSE has high performance peripherals available in the most popular brands. Durable, ergonomic scanners rapidly read industry standard barcode symbologies. High speed, multi-functional printers for barcodes, logos, graphics, and plotted charts are compatible with your equipment and made to last. Remote Displays have highly readable, super bright LED and LCD displays in a variety of sizes. RF Communication expands application capabilities and improves safety. GSE provides flexible, high quality, industrial peripherals to meet all of your application requirements.



## Barcode Scanners

### Symbol Technologies LS2208 and P300 PRO

- Low cost
- Integral Shock Protection
- Bi-directional Readability
- RS232, USB
- Ergonomic Design
- Future-proof scanners maintain compatibility with future equipment



**Symbol LS2208 without Stand**

- Contact to up to 17" away
- Reads 100 Scans per second
- Light Industrial applications



**Symbol LS2208 with Stand**

- Contact to up to 17" away
- Reads 100 Scans per second
- Light Industrial applications



**Symbol P300 Pro**

- Contact to up to 31" away
- 1-D (31") & 2-D (15") Laser Raster Scanning
- Reads 560 Scans per second
- Requires adapter for Models 675/672, 350 ZDC
- Heavy Duty Applications
- IP54 Rating



**Pharmacy Scale Model 664 with handheld/ handsfree scanner**

### Applications

Retail  
Inventory Tracking  
Healthcare  
and More

# Printers

## Label, Ticket, Tape, and Line Printers

Easily programmed with Rabbet™ Software

### Zebra TLP2844 and LP2824

- Prints 4" per second
- Direct Thermal or Thermal Transfer
- 512KB Flash
- EPL2,1/ZPL2,1 programming language
- Bitmapped graphics
- Large selection of bar code functions
- Rotate images, graphics and scaleable fonts
- Internal forms
- DB-9 Connector

#### Zebra TLP2844 Direct Thermal Label Printer



- TLP2844
- Parallel, Serial, USB
- 4" Wide

#### Zebra LP2824 Direct Thermal Label Printer



- LP2824
- Serial, USB
- 2.25" Wide

#### Okidata 184 Turbo Microline Parallel Printer

- 80 Column line printer, 300 cps
- 9 pin
- RS232
- DB-25 Connector
- Excellent for full page multipart forms



### Applications

Shipping & Receiving  
Warehouse Shelf Labeling  
Inventory Control  
Retail Product Marking  
Healthcare  
and More

### Epson Printers

#### Epson TM U590 Hi Speed Ticket Printer



- Bi-directional print capability
- 88 column width
- Document printing
- DB-25 Connector
- Prints original plus up to 4 copies

#### Epson TM U295 Ticket Printer



- Smallest Package Slip Printer Made
- 4 print sizes
- 4 printing directions
- Page mode tells printer where to print on the page
- Touch panel
- DB-25 Connector
- Paper auto eject function

#### Epson TM U220D 3" Tape Printer



- Serial, USB
- 3 Print Sizes (Up to 3")
- 40/42 Column or 33/35 column width
- Data buffer 4KB
- Prints 4.7 lps or 6.0 lps
- DB-25 Connector
- Wall Mounting Option

# Remote Displays

## Weatherproof Model 1610 and 1710

- Perfect for External Use
- Operating Temperature: 14 °F to 122 °F (-10 °C to 50 °C)
- 6 Digit Display and Annunciators
- 4.75" Character Height
- Long Viewing Distance: Visible from up to 196 ft (60 m) away
- Fast Weight Update: 10 Updates per second
- RS232/485 serial & 20mA current loop input
- 110 to 240 VAC power supply
- Powder coated aluminum housing
- Shatterproof Glass Window
- Weather Hood
- Wall mounts included
- Capacity label can be lb or kg
- CE Approved
- FCC Approval Pending
- Model 1610 Designed for use in bright sunlight and readable at extreme angles
- Model 1710 for ALPHA-numeric applications and all light conditions



### **Model 1710 ALPHA-Numeric Electro Mechanical Remote Display shown with optional Weather Hood**

Super Bright Fluorescent Display for all light conditions. Multi-segment flip digits for extreme speed and reliability.



### **Model 1610 Large Digit LED Remote Display**

Super Bright Red LED readable even in bright sunlight. Wide angle viewing.

## Indoor Model 250 and 1500



### **Model 250 Remote Display**

- For Model 250 Series Only
- ABS or Stainless Steel Faceplate
- Panel Mount
- On-board RS232 receive only
- 12-24 VDC/ 6 VDC Battery System



### **Model 1500 Remote Display**

- For 60 Series and Model 5500 Agrifield Indicators
- 2" backlit display
- No comm port needed or custom transmits
- No power supply needed, obtains power from indicator
- Place over 200 feet from indicator
- Mobile on-board applications

# RF Communication

## Wireless Technology

### RF (Radio Frequency) Communication Systems

When data cables or wiring is difficult or cost-prohibitive, GSE's RF modules, and radio modems provide private, long range, low power, low cost, and advanced networking solutions that make impossible connections possible.

**For Model 350 SS, 355 SS, and 60 Series Indicators:**

**900 MHz SR Short Range**

**900 MHz LR Long Range**

**2.4 GHz LR Long Range**



**Model 662 with  
RF Module installed  
and Modem**

### Low Power Wireless Serial Communications

#### Features

- 900 MHz or 2.4 GHz license-free ISM bands
- Easy to Integrate
- RS232/485
- RS232/485, USB, Ethernet, or Telephone Modems
- 7 Frequency Hopping Spread Spectrum (FHSS) channels for reliability and security
- Interference Blocking Feature (blocks cell phones, pagers, other wireless systems, etc.)
- 9600 bps or 19.2 kbps (LR) and 38.4 kbps (SR) over-the-air data rates
- Commercial grade 32 °F to 158 °F (0 °C to +70 °C)
- True Peer to Peer, Point-to Point, Point-to-Multipoint, & Multidrop
- Synchronizes in 35 ms
- No Configuration Necessary for out-of-box RF operation
- No master/slave dependencies
- Networkable
- Allows up to 10 Frequency Hopping Spread Spectrum independent pairs (networks) to operate in close proximity

#### RANGE:

SR: Up to 300 ft (indoor/urban) to up to 1000 ft LOS Line of Sight

LR: Up to 1500 ft (indoor/urban) to up to 7 miles LOS\*

(Up to 20 Miles with 3rd party high gain antenna)

Retries and Acknowledgements for reliable packet delivery (LR Only)  
(Error correction, resends damaged packets)

\*2.4 GHz: 600 ft (indoor/urban) to up to 3 miles LOS

(Up to 10 Miles with 3rd party high gain antenna)

### Agrifeed RF Communications - not pictured

#### RF Remote Key Kit

For Model 5500 Agrifeed Only, Transmitter & Receiver. Range: 50 ft (nominal)

#### Truck Transceiver Unit

RF Link, Truck Cab (dry) Application Only

#### Trailer/Truck Transceiver Unit

RF Link Weatherproof, Trailer/Truck (wet) Application

#### PC Base Transceiver Unit

RF Line for computer applications



### Applications

Remote Displays

Computers

Printers

Barcode Scanning

Master/Slave Indicators

Remote Operator Applications

Truck Scales

Agrifeed

and More

### APPROVALS:

#### Short Range Approvals:

FCC (USA), IC (Canada)

#### Long Range Approvals:

FCC (USA), IC (Canada)

ETSI (Europe), CE

No further licensing or approval required



# Tools & Software Summing Boxes, Load Cell Simulators, Keyboards

## Summing/Junction Boxes



### Summing Box

- Rugged ABS Enclosure
- Small enclosure perfect for applications with limited space
- Regular size enclosure for wall mount
- 4 Position Input Connections
- Trimmable Signal
- Approved for Hazardous Areas: Groups A-D
- Rating IP66 NEMA 4X with proper installation



### Remote Trim/ Summing Boxes

- Stainless Steel
- Wall Mount
- Non metallic flexible conduit can be buried underground, and is liquid tight, and oil and corrosion resistant
- 4 Position Input
- Trimmable Signal
- Approved for Hazardous Areas: Groups A-D
- Rating IP66 NEMA 4X with proper installation

## Training Boards



- Setpoint Demo Training Board
- For any 60 Series Indicator
- I/O Simulator

## Load Cell Simulators



- 3 mV/V, 10 turn (shown)
- 0-2.5 mV/V, fixed 6 step
- 0-2 mV/V, variable fine+coarse 5 step potentiometer

## SCK Adapter with Keyboard



- RS232
- 9 pin pigtail (for 60 Series)
- Can be wired directly

# Software Solutions

## Custom Application Tools

**Rabbit™** Go beyond factory standard applications with Rabbit™ software. Configuration is simple with the easy to use graphical interface. Programs all 60 Series indicators.

**Adapt™** Program all 300 Series products with the easy to use, beyond-the-basics Adapt™ software.

**User C** Development package for indicators; utilizes the industry standard C programming language for embedded controllers.

## Data Capture and Management Software

**Wedge™** and **Wedge+Plus™** Manage data with Wedge™ Software. With WedgePlus™ software, manage databases, obtain real-time data, log data in the background, and more.

## Reprogramming Tools

**Refash** Allows reprogramming of 60 Series indicators with new firmware for new features and enhancements.

**Also Available...Custom Application Programming by the factory for any GSE Instrument**



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