

General Specifications for all R³2 Transponders

Power:	Passive, no defined term of life
Programming:	R/O or R/W with lock bit
RW Memory:	8, 16 or 32 ASCII characters, 2k bits or 320 ASCII characters available upon request
RO Memory:	10 unique hexadecimal characters
Frequency:	125 KHz
Read Time:	12 to 50 ms, dependent upon Tag memory
Temperatures:	-60 to +130 degrees C in most cases, some up to 246 degrees C (475 degrees F), ask for each specific Tag
Read Ranges:	Up to 1 meter, dependent on Tag and Read Head combination used. See Read Range Matrix on page 7.
Immersion:	IP66 minimum on most Tags
Durability:	Potted Tags are extremely durable, inert to practically every acid or caustic solution, withstands direct hits

Not all Tags are RW, and a RO or RW suffix to the Model number must be specified when ordering. RO Tags are delivered with the guarantee of unique numbers. RW Tags can be delivered in sequential order or with customer specified data.

	Model 1762 Global Tag Sealed ABS Black with custom printing available	30mm diameter with center hole Read Only or Read Write
	Model 1763 Peel and Stick Button Tag Potted w/peel and stick backing Red, blue, yellow, green or black	.625" diameter x .0625" 20mm diameter x 2mm Read Only or Read Write
	Model 1765 30mm Clear Flexible Disc Tag Polyurethane transparent package Options: Peel and Stick	30mm diameter x .6mm thick Read Only or Read Write
	Model 1766 25mm PVC Laminate Disc Model 1767 50mm Potted Domed Disc Options: Peel and Stick, Center Hole	25mm diameter x 1mm thick 50mm diameter x 3.3mm thick Read Only or Read Write
	Model 1768 Inventory Sticky Label Tag Model 1769 CD-ROM Sticky Label Tag White Polypropylene label Tag is destroyed when removed	4cm x 5cm 34mm diameter Read Only or Read Write
	Model 1770 ISO Card Tag Credit card size and thickness Clamshell available Options: Custom Printing, Mag Stripe	3.75" x 2.125" x 31 mils Read Only or Read Write
	Model 1771 35mm Disc Tag PVC Laminate with center hole	35mm diameter x 2mm, w/4mm center hole 1.38" x .0625", .15625 center hole Read Only or Read Write
	Model 1772 22mm High Temp Disc Tag 400°F indefinite, 475°F for 1 hour Potted with center hole	22mm diameter x 3mm thick, w/4mm center hole .875" diameter x .125", .15625 center hole Read Only or Read Write
Multiple Tag Photos on following page	Model 1773 Keyfob Tag Sealed ABS Black, Red, Blue	Sizes vary with package option Read Only or Read Write

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 <p>50mm</p>	 <p>Round Standard</p>	 <p>Aquatic</p>	 <p>Water Drop</p>	 <p>Baseball Bat</p>	 <p>Water Drop Bi-Color</p>	 <p>Round Bi-Color</p>	 <p>Mini ISO Card</p>	 <p>Surfboard</p>
	<p>Model 1774 Coffin Tag</p> <p>Extremely small architecture</p> <p>Plastic</p>		<p>.5" x .25" x .125"</p> <p>Read Only or Read Write</p>					
	<p>Model 1775 Glass Ampoule Tag</p> <p>Extremely small architecture</p>		<p>2mm diameter x 12mm length</p> <p>Model 1775LG Glass Ampoule Tag</p> <p>4mm diameter x 34mm length</p> <p>Read Only or Read Write</p>					
	<p>Model 1776 Wrist Tag</p> <p>ABS plastic, water resistant perlon band</p> <p>Black, Red or Blue</p>		<p>32mm x 42mm</p> <p>5mm thick</p> <p>Read Only or Read Write</p>					
	<p>Model 1777 Nail Tag</p> <p>Polyamid with glass fiber</p>		<p>4mm diameter x 35mm thick</p> <p>Read Only</p>					
	<p>Model 1778 Pill Tag</p> <p>PPS and Epoxy</p>		<p>12.4mm diameter x 2mm thick</p> <p>Read Only or Read Write</p>					
	<p>Model 1779 16mm Laundry Tag</p> <p>High Temp and Pressure tested Epoxy over molded IP68</p> <p>Temp: 220° C / 428° F</p>		<p>16mm diameter x 3mm thick</p> <p>Read Only or Read Write</p>					
	<p>Model 1781M Bar Tag</p> <p>Designed for direct metal mounting</p> <p>Potted</p> <p>Two mounting holes</p>		<p>3.5" x .90" x .90"</p> <p>Read Only or Read Write</p>					

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	<p>Model 1783 Tough Thin Tag</p> <p>Credit card in size with thick plastic shell</p> <p>Optional 1783H attachment housing pictured</p>	<p>2.13" x 3.38" x .16"</p> <p>Read Only or Read Write</p>
	<p>Model 1786 Hockey Puck Tag</p> <p>Potted, two mounting holes</p> <p>Temp: 150° C / 302° F Standard Higher available</p>	<p>1.19" x 3.35" diameter</p> <p>Read Only or Read Write</p>
	<p>Model 1787 Lipstick Tag</p> <p>Cylindrical housing for in floor mounting</p>	<p>2.3" x .75" diameter</p> <p>Read Only or Read Write</p>
	<p>Model 1788 Cylinder Tank Tag</p> <p>Sloped inner lip provides perfect adhesion to any curved surface</p> <p>Perfect for application to welding or oxygen Tanks</p>	<p>31mm diameter x 8 mm height</p> <p>Read Only or Read Write</p>
	<p>Model 1791 and 1791M Deck of Cards Tag</p> <p>Potted</p> <p>Two mounting holes</p>	<p>2.17" x 4.05" x .55"</p> <p>Read Only or Read Write</p>
	<p>Model 1795 Frisbee Tag</p> <p>Potted</p> <p>Two mounting holes</p>	<p>6" diameter x .625" thick</p> <p>Read Only or Read Write</p>
	<p>Model 1796 Clear Laminate Monster Tag</p> <p>Peel and stick backing</p>	<p>8" x 6.75"</p> <p>Read Only or Read Write</p>

All ranges are represented in inches.

Read Head	IA or Micro Rdr	5101	5100	5110	5120	5150	5160	5180	3038E Reader
Tag									
1762 and 1766 20mm 1765 30mm 1767 50mm	2 2 4	.25 1 .5	2 3 4.5	2 3 4	1 3 6	4 4.5 8	— 5 10.5	1.5 2.5 5.5	15 20 30
1768 Inventory 1769 CD ROM 1770 ISO	2 2 4	1 1 2.5	3 3 5	3 3 5.3	3 7 6	5.5 5.5 7.5	5.5 5.5 12	2 2 5	18 18 42
1771 35mm 1772 22mm 1773 Keyfob	2.5 2 3	2 1.5 3	3 3 4	3 2.5 4	4 2.5 5	6 4 4	7 3.5 9	3 2 3.5	20 16 21
1774 Coffin 1775 Glass 1776LG Glass 1776 Wrist	1.5 1 1.5 2.5	1 1 2 1.5	2 1 2.5 2	2 1.5 2.5 2	1 .5 3 1.5	3 2 5 4	1 — 7 1	1 .5 2.5 1	— 13 20 15
1777 Nail 1778 Pill 1779 16mm Laundry	1 2 2.5	— 1 .25	1 1.5 2	1.5 1.5 2.5	1 1 2.5	3 2.5 4.5	— — 4.5	1 .5 2.5	11 14 16
1781M2 Bar 1783 TTT	3 5	3.5 6	4 7	4 6.5	4 7	7.5 9	8 10	3.5 7	14 42
1784 Volcano 1786 Orange	4.5 5	.25 6	5 7	5 6.5	6.5 7	9 11	11.5 14	6.5 7	28 44
1787 Lipstick 1788 Tank	4 1.5	4 2	6 2	6 2	6 2.5	7.5 3	10.4 2	6.5 1.5	25 14
1791 Deck 1795 Frisbee 1796 Monster	5 7 8	6 8.5 10.5	7 11 10	6.5 10 9	7 9.5 17	7.5 14 13	12 16 20	7 12 14.5	42 48 48

Customer List

We are proud to disclose the following as satisfied users of our products.

USA:	Jervis Webb	TJ Maxx	SJS (distributor, Toronto)
Abbot Labs	Kaiser Permanente	Toyota	Stelco Steel
Ace Hardware	Key Handling Systems	Trident Automotive	WBM
Alcoa	Kim Automation	TRW	
Allen Bradley	Knapp Automation	U.S. Navy	CENTRAL AND
Amana	Krauss-Maffei	Vail Resorts	SOUTH AMERICA:
American Bar Code	Lemans	Valeo Sylvania	EGO (distributor, Mexico)
Ameripharma	Los Alamos Labs	Veteran's Administration	General Electric (Mexico)
Anheuser Busch	Los Angeles Times	Visteon	Hylsa (Mexico)
Anthem Prescription	Lowry Computer Products	Volvo	IdeaNet (distributor, Chile)
Asyst Technologies	Magic Chef	Walgreens	MABE Leiser (Mexico)
AT&T/Lucent	Maytag	Walmart	SCI Sanmina (Mexico)
Atmel/Temic	McKesson	Walt Disney amusement parks	Retex (Peru)
Automated Tooling Systems	Meridian Automotive	Wepco	Thomson Electronics (Mexico)
Avtron	Motorola	Whirlpool	WM Wireless (dist, Columbia)
BAE Automation	NASA	Wunderlich-Malec	
Baylor University	National Control Systems	Wyeth Labs	EUROPE:
Boeing Corporation	Nestle		AST (Swiss)
Cal Poly State University	NextBus	ASIA:	Efacec (Portugal)
Cameron Barkley	Nokia	Danlaw (distributor, India)	Infos (distributor, Portugal)
Carlton Bates	Northwest Airlines	Electronic Corporation of India	London Heathrow Airport
Caterpillar	Nippon Steel	Palms On (distributor, Korea)	Louis Vaughn (distributor, UK)
CDS/Procure	Osh Kosh B'Gosh	Shenzhen (distributor, China)	MDA Systems (France)
CEI Automation	Osram Sylvania	Toyoto (Japan)	Moncks & Crane (UK)
Charbroil	PacifiCare		Moriepek (distributor, Turkey)
Computers Unlimited	Penn State University	AUSTRALIA/AFRICA:	Pyrotec (dist., South Africa)
Copeland	Pepsi	Alcoa World Alumina	SCI Sanmina (Hungary)
Cutler Hammer (Puerto Rico)	Purdue University	BHP Billiton Iron Ore	Securitas (Sweden)
Daimler Chrysler	Prilgrim's Pride	CMA Systems	TRW (UK)
Detroit Diesel	Polaris	Dampier Salt	TRW (Germany)
DT Industries	Proctor & Gamble	Hamersley Iron	
Eastman Kodak	Reliance Rockwell	Logitech Consultants	USA DISTRIBUTORS:
Eckerd Drug (misspelled)	Rice Lake Weighing	Pacific Automation (dist, AUS)	Advent Electric (PA)
Eglin AFB	Rite Aid	Port Waratah	Axis, Inc. (NJ, NY)
EI DuPont	Rockwell Automation	Pyrotec (dist, South Africa)	C&E Sales (IN, OH, KY)
Eskey	Rx Direct	Queens Creek	Cassady Co. (AK, OK, LA, TX)
Esselte	Sandia National Labs	Robe River Iron Associates	Electro-Matic (OH, MI)
Estee Lauder	Schick Shaving Products	Sinclair Knight Merz	Elec-Trol (MN)
ExcelleRx	SCI Sanmina	ThyssenKrupp Engineering	GEA (TX)
Exxon Mobil	Sears	Voest-Alpine Materials Hndling	Gibson Eng. (MA, CT)
FamilyMeds.com	SI/Baker & SI/Handling Systems	WMC Resources	ID Tech (WA, OR)
Federal Mogul	Six Flags Amusement Parks	CANADA:	Industrial Controls (MI)
Ford Motor Company	Square D Company	AMT Machine Tools (dist, Tor)	Lowry Computers (all USA)
Frigidaire	Siemens	Aurora Bar Code	Power Motion (MO, KS)
Fuel-All	Stanley Tools	CIMS (distributor, BC)	PRI (NY, NJ)
General Electric	Tel-Drug	City of Fort St. John	Taylor Data (SC, NC, FL)
General Motors	Texas Instruments	Dofasco	Vision Control (WI)
Georgia Tech. University	The Denver Post	GLC Controls (distributor, BC)	
H.E. Butt Grocery	The Boston Globe	Kellogg's Cereal	
Hewlett Packard	Thomson Consumer Electronics	Kielhauer	
Honeywell	Timken	Load A2B	
Howmet		LSZ Papertech	
Inland Steel			