

Touch Pad Input Station

16 Service options
(Expandable to 32 services)

Simple stack control
(Stacks up to 8 cars)

Selection indicator lights

Tactile service keys

Roller control key

Bump shift key

Print receipt key

RS2232 printer port

LED diagnostic lights



Tunnel Master Input Station

120 VAC
1.5 AMP
10^{3/4}"H x 16^{1/4}"W x 7^{3/4}"D

Tunnel Master Communication Box

120 VAC
1.5 AMP
10^{3/8}"H x 11^{1/4}"W x 2^{3/4}"D

Tunnel Master Jr.

40X4 LCD Display

Indicator lights
for easy self-diagnostics

Menu and function keys
allow for simple
on-site programming

Advanced long life
keypad technology

Key lock to
restrict access

Pre-defined label area
for easy identification

24 Hand-off-auto switches

Powder coated
enclosure for durability

Removable door for
easy installation



Control Technology

Watchdog timers, noise
suppression and optical
isolation provide proven
reliability and the latest
industrial control technology

Clock, gate, tire and panic
inputs for easy field wiring

24 Removable double-pole
double-throw relays with
indicator lights

Each relay pole is individually
fuse protected

Shared commons simplify
wiring

Individual barrier strips for
each relay pole

Spare fuse tester and holder
with indicator lights

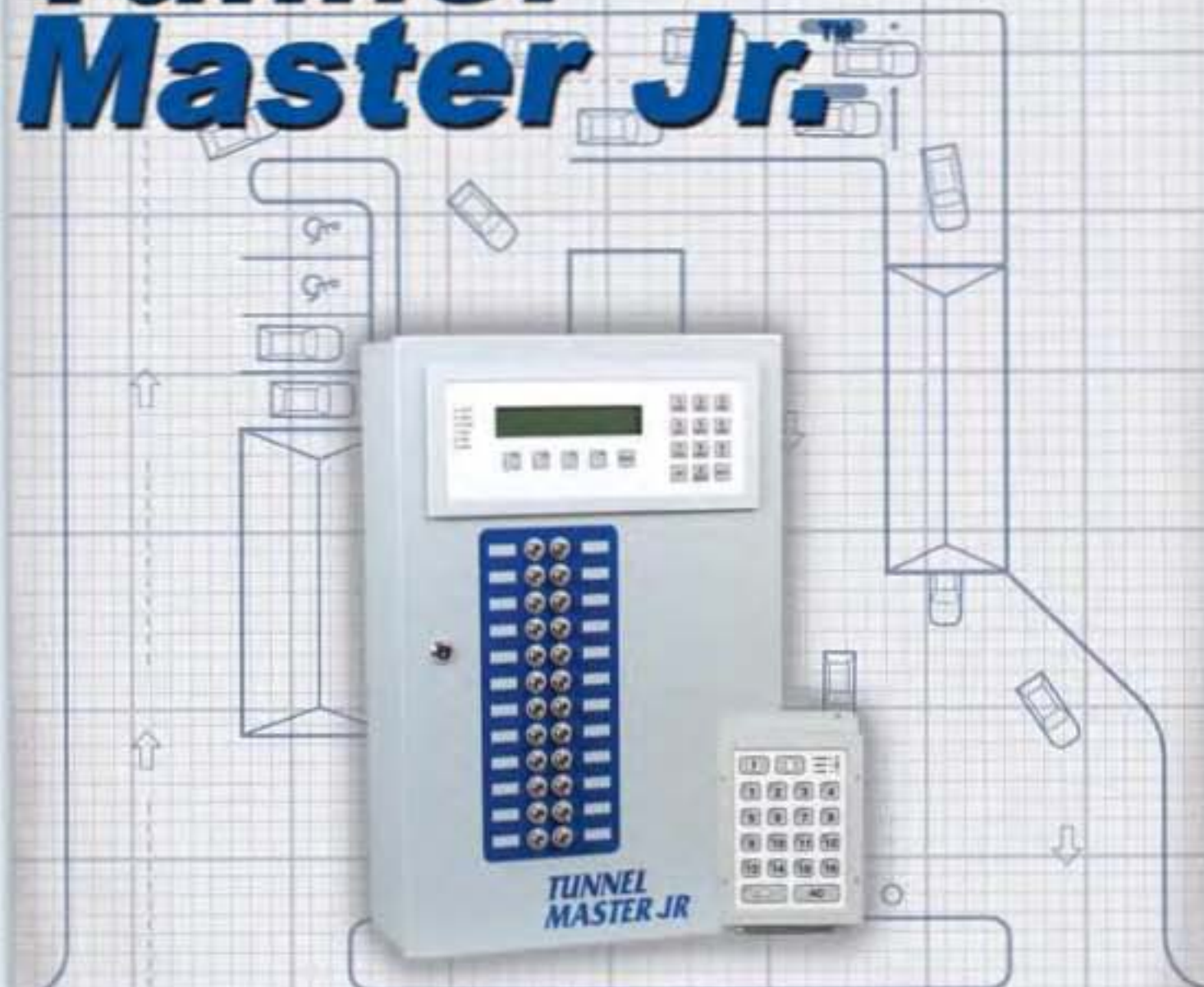
Communication port RS-485
provides connectivity to other
devices

2 RS-232 serial ports allow for
printer and modem connections



icsi
Innovative Control Systems

Tunnel Master Jr.



Experience is Everything

icsi
Innovative Control Systems

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Features

Controller Functions:

- 24 double pole fused relays (Expandable in additional groups of 24)
- Easy to use interface
- Entrance management (automatic car processing)
- Automatic roller
- Roller anti-jam
- Auto-pulse and auto gate
- Anti-collision
- Panic functionality
- Push button and keypad support
- Password protected
- Minimum and maximum vehicle detection
- Shift and summary reporting
- Keypad, PC or off site modem programming



Relay Functions:

- Mandatory, selective, de-selective and tire functions
- Entrance sign control
- Auto stop control
- Roller control
- Front half, rear half, front bumper, rear bumper outputs
- Look ahead
- Panic stop conditions (on, off, or no change in condition)
- Conveyor Start
- Horn Control
- Entrance Management System



Warranty: *ics* will warranty the hardware components for one year from date of system start up.

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The *Tunnel Master Jr.* is the most versatile controller in the car wash industry. Through a built-in processor, it can control your entire wash without depending on a PC; eliminating a potential point of failure. Reliability is assured through the latest industrial control technology and years of operation in the field. Simple reporting and anti-theft features maintain cash accountability and give you much more than equipment control. Auto-pulse and auto-gate functions keep your wash open even when other input devices in your wash fail.

The *Tunnel Master Jr.* system can easily be interfaced with the Tunnel Master management system; giving you the ability to easily expand your system to other ICS products. The Tunnel Master Jr. is the best choice for reliability, functionality and expandability.

Shift Report			
START: 09/26/2005 8:00:00			
END: 09/26/2005 3:00:00			
Service	Qty	Amount	
01-EXPRESS WASH	215	0.00	171.00
02-PLATINUM EXPRESS	53	0.00	136.00
03-ULTRA EXPRESS	42	0.00	107.00
Non Tax Sales			174.00
Sales @ Tax Rate 1		1.00	
Sales @ Tax Rate 2		1.00	
Sales @ Combined Tax Rates		1.00	
Taxes @ Rate 1		1.00	
Taxes @ Rate 2		1.00	
Total Income			174.00
Car Count	310		
Invalid Count	1		
Clear Count	2		
Void Count	0		
Output	Auto	Manual	Time
01-UNDERBODY WASH	98	0	0
02-HEAVY WASH	210	0	0
03-TRIPLE COAT SPR	98	0	0
04-TRIPLE COAT SOL	98	0	0
05-TRIPLE COAT 2	98	0	0
06-SS W/ PUMP	210	0	0
07-SS W/ PUMP	210	0	0
08-SS TOP PUMP	210	0	0
09-SS FRONT SOLENOID	210	0	0
10-SS SIDE SOLENOID	210	0	0
11-SS SIDE SOLENOID	210	0	0
12-SS REAR SOLENOID	210	0	0
13-SS TOP REAR SOL	210	0	0
14-ENTRY DOOR CLOSE	210	0	0
15-FOOT 1000	210	0	0
16-UNDERBODY SEAL	98	0	0
17-DRYING AGENT	98	0	0
18-TIRE BLAZE HYDR	215	0	0
19-TIRE BLAZE	42	0	0
20-EQUIP POWER RNC	210	0	0
21-ENTRANCE SIGN	210	0	0
22-ROLLER UP	210	0	0
23-ARCH #1 FLIPS	210	0	0
24-CONVEYOR ON	0	0	0
25-AUTO STOP	0	0	0
26-CONVEYOR ENABLE	0	0	0
27-EXIT DOOR OPEN	210	0	0
28-EXIT DOOR CLOSE	210	0	0
29-DRIVE STOP LIGHT	0	0	0
30-EXIT EXPRESS SIGN	0	0	0
31-PLATINUM SIGN	42	0	0
32-ULTRA SIGN	98	0	0
33-HORN	0	0	0
34-BUG OFF	210	0	0
35-JR HODGE HODGE	210	0	0
36-JR HODGE FRONT	210	0	0
37-JR HODGE REAR	210	0	0
38-FORMING W/1 1ST	98	0	0
39-FORMING W/1 2ND	98	0	0
40-1ST BUMPER FRONT	210	0	0
41-1ST BUMPER REAR	210	0	0
42-1ST ARCH REAR	210	0	0
43-1ST ARCH FRONT	210	0	0
44-2ND BUMPER REAR	210	0	0
45-2ND BUMPER FRONT	210	0	0
46-2ND ARCH REAR	210	0	0
47-2ND ARCH FRONT	210	0	0

Month Report For The Year 2005		
Service	Qty	Amount
01-EXPRESS WASH	2580	12900.00
02-PLATINUM EXPRESS	702	4914.00
03-ULTRA EXPRESS	468	3744.00
Non Tax Sales		21558.00
Sales @ Tax Rate 1		0.00
Sales @ Tax Rate 2		0.00
Sales @ Combined Tax Rates		0.00
Taxes @ Rate 1		0.00
Taxes @ Rate 2		0.00
Total Income		21558.00
Car Count	3750	
Invalid Count	0	
Clear Count	0	
Violation Count	0	
Void Count	0	

Year Report For The Year 2005		
Service	Qty	Amount
01 EXPRESS WASH	58310	291550.00
02-PLATINUM EXPRESS	1624	10968.00
03-ULTRA EXPRESS	9816	44928.00
Non Tax Sales		295446.00
Sales @ Tax Rate 1		0.00
Sales @ Tax Rate 2		0.00
Sales @ Combined Tax Rates		0.00
Taxes @ Rate 1		0.00
Taxes @ Rate 2		0.00
Total Income		295446.00
Car Count	72380	
Invalid Count	0	
Clear Count	0	
Violation Count	0	
Void Count	0	