

ATS-1

Automated Truck Scale System



Shown with optional features

APPROVALS



SPECIFICATIONS

LINE VOLTAGES:

115 or 230V AC

FREQUENCY:

50 or 60Hz

POWER CONSUMPTION:

340mA, maximum @ 115V AC (26W)
240mA @ 230V AC (26W)

FUSING:

115V AC: 2 x 400mA TR5 subminiature fuses
Wickman Time-Lag 19374 Series. UL Listed,
CSA certified and approved

230V AC/North American: 2 x 315mA TR5
subminiature fuses Wickman Time-Lag 19372
Series. UL Listed, Semco and VD Approved

EXCITATION VOLTAGE:

10 ± 0.5VDC, 16 x 350Ω or 32 x 700Ω load
cells per A/D card

SENSE AMPLIFIER:

Differential amplifier with 4 and 6 wire sensing

ANALOG SIGNAL INPUT RANGE:

-10mV to +70mV

ANALOG SIGNAL SENSITIVITY:

0.3μV/graduation minimum @ 7.5Hz
1.0μV/graduation typical @ 120Hz
4.0μV/graduation typical @ 960Hz

A/D SAMPLE RATE:

7.5 to 960Hz, software selectable

INPUT IMPEDANCE:

>35MΩ typical

INTERNAL RESOLUTION:

8 million counts/8 million 23 bit

WEIGHT DISPLAY RESOLUTION:

9,999,999

INPUT SENSITIVITY:

10nV per internal count

SYSTEM LINEARITY:

±0.01% full scale

ZERO STABILITY:

±150nV/°C, maximum

SPAN STABILITY:

±3.5ppm/°C, maximum

CALIBRATION METHOD:

Software, contents stored in flash memory

INPUT VOLTAGE DIFFERENTIAL:

±800mV referenced to earth ground

INPUT OVERLOAD:

Load cell signal lines ±10V continuous,
ESD protected

RFI/EMI PROTECTION:

Signal, excitation and sense lines protected

MICROCOMPUTER:

Motorola ColdFire® MCF5307 main processor @
90MHz

DIGITAL I/O:

Four I/O channels on CPU board; optional
24-channel I/O expansion boards available

DIGITAL FILTER:

Software selectable: 1-256, enhanced
RATTLETRAP® hybrid digital filtering

SERIAL PORTS:

Four ports on CPU board support up to
115,200bps; optional dual-channel serial
expansion boards available
Port 1: Full duplex RS-232
Port 2: RS-232 with CTS/RTS; PS/2
keyboard interface via DB-9 connector
Port 3: Full duplex RS-232, 20 mA output
Port 4: Full duplex RS-232, 2-wire
RS-485, 20mA output

DISPLAY:

4.6" W x 3.4" H (116mm W x 86mm H),
320 x 240 pixel VGA Liquid Crystal Display (LCD)
module with adjustable contrast, 75Hz scan rate
26,000 cd/m2 brightness

KEYBOARD:

27-key membrane panel, PS/2 port for external
keyboard connection

OPERATING TEMPERATURE:

Legal: 14°F to 104°F (-10°C to +40°C)
Industrial: 14°F to 122°F (-10°C to +50°C)

STANDARD FEATURES

- Operator prompting
- Formattable tickets that print at the end of a transaction
- Traffic light control
- Transmits weight to remote display (only when activated)

Optional Features

- RFID reader
- Credit card reader
- Qwerty keyboard
- Internal heater
- Currency acceptor (U.S. currency only)
- Gate control
- Loop detector input
- Internal printer

STORAGE TEMPERATURE:

14°F to 158°F (-10°C to +70°C)

HUMIDITY:

0-95% relative humidity

DIMENSIONS:

Indicator: 10.5" W x 10.9" H x 4.5" D
(226mm W x 215mm H x 114mm D)
Enclosure with Bill Acceptor:
30.0" H x 24.0" W x 8.0" D
(762 W x 609.6 H x 203mm D)
Printer Box: 20.0" H x 20.0" W x 12.0" D
(508mm W x 508mm H x 305mm D)
Note: Enclosure sizes may vary based
on options requested.

RATING/MATERIAL:

NEMA 4 painted enclosure

APPROVALS:

CE marked
TUV;
UL & C-UL listed
NTEP Class III, 10000 dd 98-158

WARRANTY:

Two-year limited warranty

ColdFire is a registered trademark of Motorola, Inc.

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PART #	DESCRIPTION	EST. SHIP WEIGHT	PRICE
.....	ATS-1 Automated Truck Scale System.....	40lb	prices starting at Consult

OPTIONS/ACCESSORIES

75850.....	SURVIVOR® LaserLight® Series remote display, 4"	Consult
75852.....	SURVIVOR® LaserLight® Series remote display, 6"	Consult
36966.....	Internal heater.....	Consult
21159.....	Internal transient protection.....	Consult
23146.....	Traffic light	Consult
Consult.....	Kiosk tape printer with weather shield.....	Consult
90975.....	STAR TUP 992 Thermal.....	Consult

REPLACEMENT PARTS

105443.....	EU-T400 (requires power supply)	Consult
23112.....	Power supply.....	Consult
105445.....	Paper 6" OD	Consult
105446.....	Paper 8" OD	Consult

CONSULT FACTORY FOR THESE ADDITIONAL OPTIONS

- Stainless steel enclosure
- RF tags/antenna for truck IDs
- Bar code badge scanner
- 230V AC
- Foreign currency acceptor
- Full keyboard
- Numeric keypad

