



International Currency Technologies

43010 Osgood Rd. Fremont, CA 94539

Tel: (510) 353-0289 Fax: (510) 353-0399

E-mail: sales@ict-america.com Website: www.ict-america.com



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(1) A6/V6 Bill Validator Specifications

Acceptance Rate

96% or greater

Bill insertion

4-way Acceptance

Acceptance Speed

Approx. 3 seconds, Pulse Interface (including bill stacking)

Interfaces

S.T. D. Pulse M.D.B. (Multi-Drop Bus) ICT Protocol

Bill box Capacity

Approx. 300 bills (200~300) 3M-SBX03005 500 bills (300~500) 3M-SBX04005 800 bills (750~850) 3M-SBX08005

Weight

Approx. 2kg (shipping)

Power Sources

34V DC 1.5Amp (M.D.B) 12V DC 3 Amp

117V AC 0.2Amp (60HZ) 24V AC 1.5Amp (60HZ)

Power Consumption

Max 50 watts

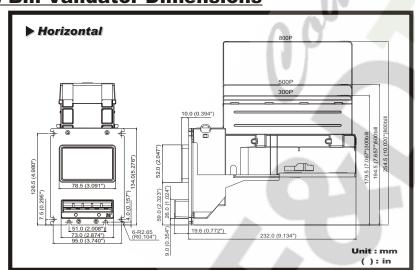
Environment Range

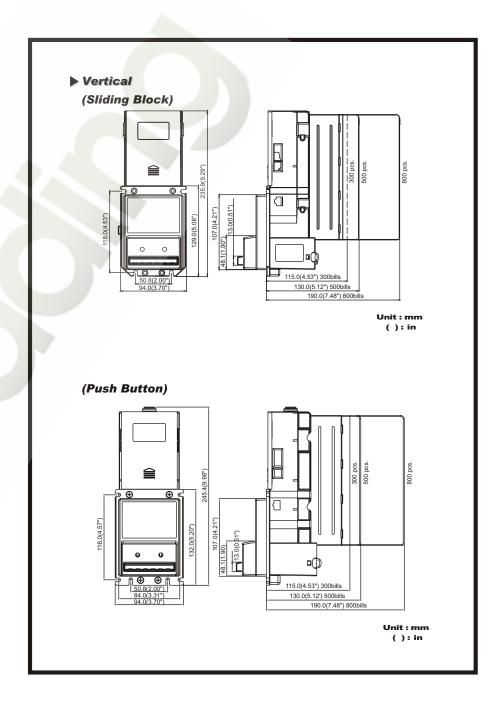
Operating Temperature 0°C~55°C Storage Temperature -30°C~70°C

Humidity: 30%~85% RH (no condensation)

This guide contains all A6/V6 specs, but the actual machine matches only one of the specs.

(2) Bill Validator Dimensions





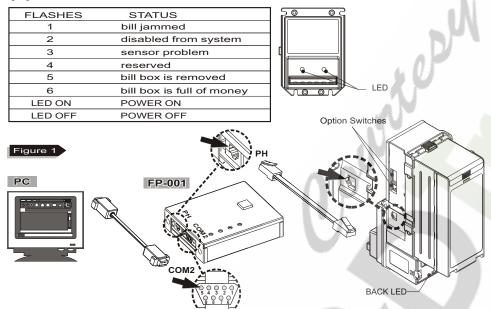
- 2 -

(3) LED Display

The two LED lights located at the front of the unit will show the operational status of the bill validator. The LED lights will flash ON and OFF (in 500ms intervals) when the unit is ready to accept bills. The LED lights will be OFF if the unit is disabled or out of service, in which case the unit will not accept any bills.

The bill validator can only accept one bill at a time. The LED lights will be OFF and will not accept another bill while a bill is being validated in the unit. The LED lights will start to flash normally when the bill validator is ready to accept the next bill.

(4) LED Status



(5) Download and Upgrade

In addition to the 30-pin connector, there is also an 8-pin RJ-45 connector on the side of the bill validator designed for the purpose of downloading programs and updating validation software. The connector will be kept open under normal operation of the bill validator. It will only be used when a new software or program need to be downloaded into the flash ROM. (Figure 1)

(60) (64)

^{*}Als Piercel Assignosseds (S.H.C. Pelss for 127 649)

For the 12VDC version of the A6 bill validator, the harness(paint mo. WEL-M007, see page.11 for pin-out information) has a dual-in-line 30-pin peripheral connector at one end and a 9-pin mating connector at the other end. Connect the 30-pin connector to the side of the bill validator and the 9-pin mating connector to the 12V DC power harness (paint mo.CU-961-1, see page. 9 for pin-out information).

9-pin mating connector pin-out assignments:

Pin 1 INHIBIT + Pin 6 Reserved

Pin 2 INHIBIT - Pin 7 CREDIT_RELAY(N.O.)

Pin 3 Reserved Pin 8 CREDIT_RELAY(Common)

Pin 4 Reserved Pin 9 GND (Power)

Pln 5 12V DC (Power)

♦ Dual-In-line 30-pin peripheral connector (A6, 12V DC) pin-out assignments:

 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
16	17	18	19	20	21	22	23	24	25	26	27	28	29	30

Pin 1 - CREDIT RELAY(Common) Pin 16 - CREDIT RELAY(N.O.)

Pin 2 - 12VDC (Power) Pin 17 - Reserved
Pin 3 - ENABLE - Pin 18 - ENABLE +

Pin 4 - Reserved Pin 19 - KEY

Pin 5 - INHIBIT + Pin 20 - INHIBIT -

Pin 6 - KEY Pin 21 - Reserved

Pin 7 - Reserved Pin 22 - Reserved Pin 23 - Reserved

Pin 9 - Reserved Pin 24 - Reserved

Pin 10 - GND (Power) Pin 25 - Reserved

Pin 11 - Reserved Pin 26 - Reserved

Pin 12 - Reserved Pin 27 - Reserved

Pin 13 - Reserved Pin 28 - Reserved

Pin 14 - Reserved Pin 29 - Reserved

Pin 15 - Reserved Pin 30 - Reserved

CAUTION: Turn off the power before connecting or disconnecting the bill validator.

(6) 6-2 A6 Pin-out Assignments (S.T.D. Pulse for 117V AC)

For the 117V AC version of the A6 bill validator, connect the 30-pin peripheral connector on one end of the harness (*part no. WEL-M008*, see page.12 for pin-out information) to the side of the unit and the 9-pin mating connector to the 117V AC power harness (*part no. WEL-M010 and WEL-M012*, see page.13,14 for pin-out information).

♦ 9-pin mating connector pin-out assignments:

Pin 1 NEUTRAL INHIBIT Pin 6 117VAC NEUTRAL(Power)

Pin 2 NEUTRAL ENABLE Pin 7 CREDIT_RELAY(N.O.)

Pin 3 HOT ENABLE Pin 8 CREDIT_RELAY

Pin 4 117VAC HOT (Power) (Common)

Pin 5 Earth - Ground Pin 9 Reserved

IMPORTANT: On 117V AC units, the Earth Ground must be located inside the machine.

◆ Dual-in-line 30-pin peripheral connector (A6, 117V AC) pin-out assignments:

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
16	17	18	19	20	21	22	23	24	25	26	27	28	29	30

Pin 1 - CREDIT_RELAY(Common) Pin 16 - CREDIT_RELAY(N.O.)

Pin 2 - Reserved Pin 17 - Reserved

Pin 3 - NEUTRAL ENABLE Pin 18 - HOT ENABLE

Pin 4 - 117VAC NEUTRAL(Power) Pin 19 - KEY

Pin 5 - NEUTRAL INHIBIT Pin 20 - 117VAC HOT(Power)

Pin 6 - KEY Pin 21 - EARTH GROUND

Pin 7 - Reserved Pin 22 - Reserved

Pin 8 - Reserved Pin 23 - Reserved

Pin 9 - Reserved Pin 24 - Reserved

Pin 10 - Reserved Pin 25 - Reserved

Pin 11 - Reserved Pin 26 - Reserved

Pin 12 - Reserved Pin 27 - Reserved

Pin 13 - Reserved Pin 28 - Reserved

Pin 14 - Reserved Pin 29 - Reserved

Pin 15 - Reserved Pin 30 - Reserved

♠ CAUTION: Turn off the power before connecting or disconnecting the bill validator.

(7) 7-1 V6 Pin-out Assignments (M.D.B. System for 34V DC)

For the MDB interface V6 bill validator, connect the 30-pin peripheral connector on one end of the harness (*part no. WEL-M006*, see page.10 for pin-out information) to the side of the unit and the standard 6-pin MDB connector to the power/interface connector.

The standard 6-pin MDB connector pin-out assignments:

6

Pin 1 - 34 VDC

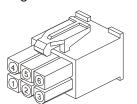
Pin 2 - 34 VDC Power Return

Pin 3 - N/C

Pin 4 - Master Receive

Pin 5 - Master Transmit

Pin 6 - Communications Common



9 | 10 | 11 | 12 | 13 | 14 | 15

Dual-in-line 30-pin peripheral connector (V6, MDB) pin-out assignments:

8

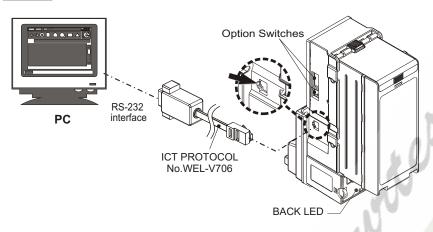
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30		
Pin 1 - Reserved Pin 16 -											- 34	VDC	RF	TUF	SN		
							Pin 16 - 34VDC_RETURN										
	Pin	2 - F	≺ese	ervec	1.		Pin 17 - Reserved										
	Pin	3 - F	Rese	ervec	l		Pir	า 18	- Re	serv	ed						
	Pin	4 - F	Rese	ervec	I		Pir	า 19	- Re	serv	ed						
	Pin	5 - k	ΚEΥ						Pir	ո 20	- Re	serv	ed				
	Pin 6 - MDB_MASTER_RXD									Pin 21 - KEY							
	Pin	7 - F	Rese	ervec	l				Pin 22 - Reserved								
	Pin	8 - F	Rese	ervec	l				Pin 23 - +34VDC								
	Pin	9 - F	Rese	ervec	l				Pin 24 - Reserved								
F	⊃in 1	0 - F	Rese	ervec	I				Pin 25 - Reserved								
F	Pin 1	1 - F	Rese	ervec	l				Pin 26 - Reserved								
F	Pin 12 - Reserved									Pin 27 - Reserved							
F	Pin 13 - Reserved									Pin 28 - MDB_GND							
F	Pin 1	4 - 1	ИDВ	_MA	STE	R_		Pin 29 - Reserved									
F	Pin 1	5 - F	Rese	ervec	I				Pin 30 - Reserved								

CAUTION: Turn off the power before connecting or disconnecting the bill validator.

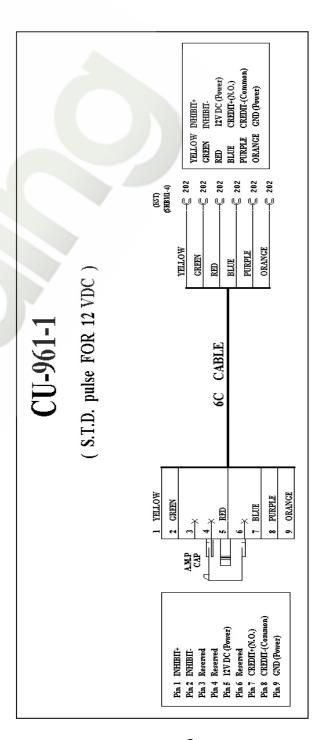
(8) A6 Pin-out Assignments (I.C.T. Protocol)

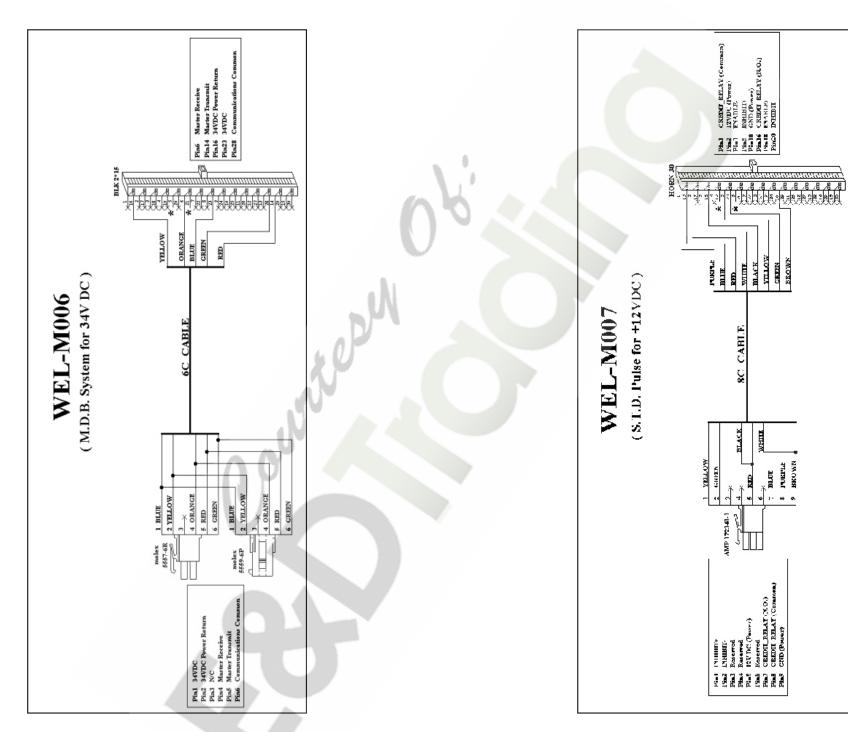
The cable for ICT Protocol (*part no. WEL-V706*, see page. 17 for pin-out information) connector on one end and a 9-pin PC connector on the other end. To connect, plug the RJ-45 connector into the RJ-45 socket on the side of the BA and connect the 9-pin PC connector to the COM port of a PC (Figure 2).

Figure 2



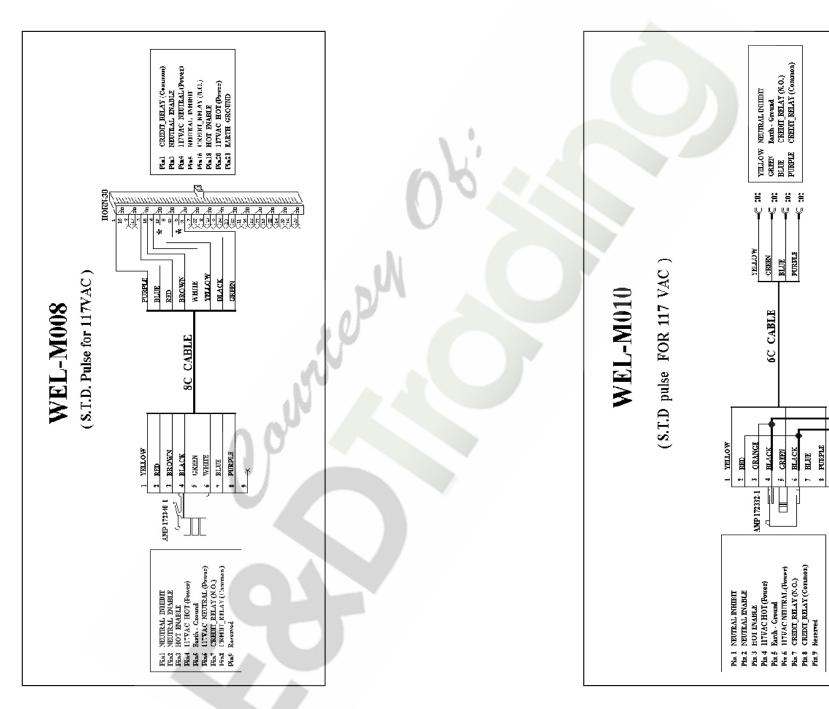






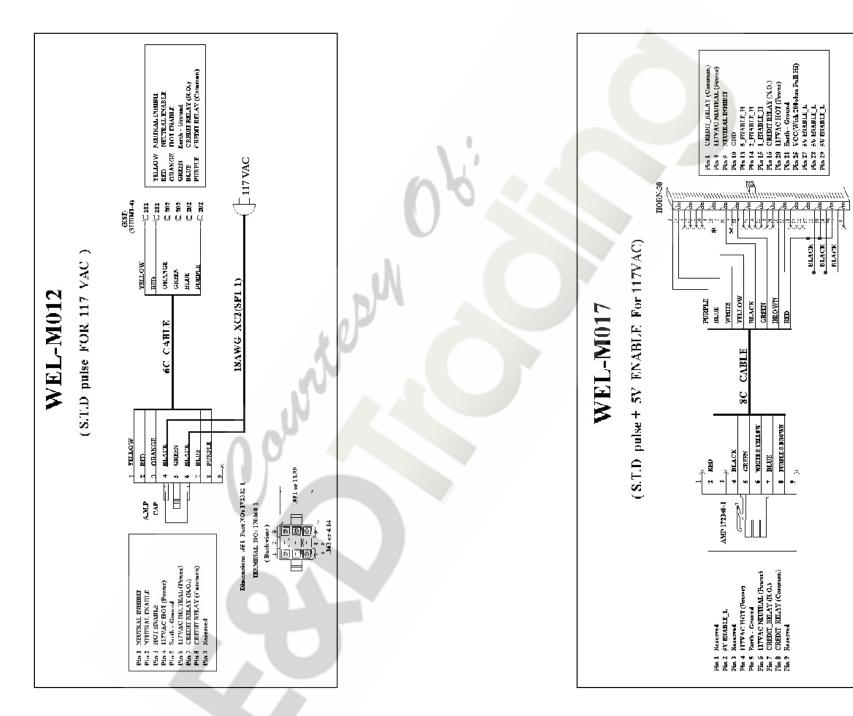
_ 117YAC

18AW GXC2(SPT-1)



BLACK BLACK RLACK

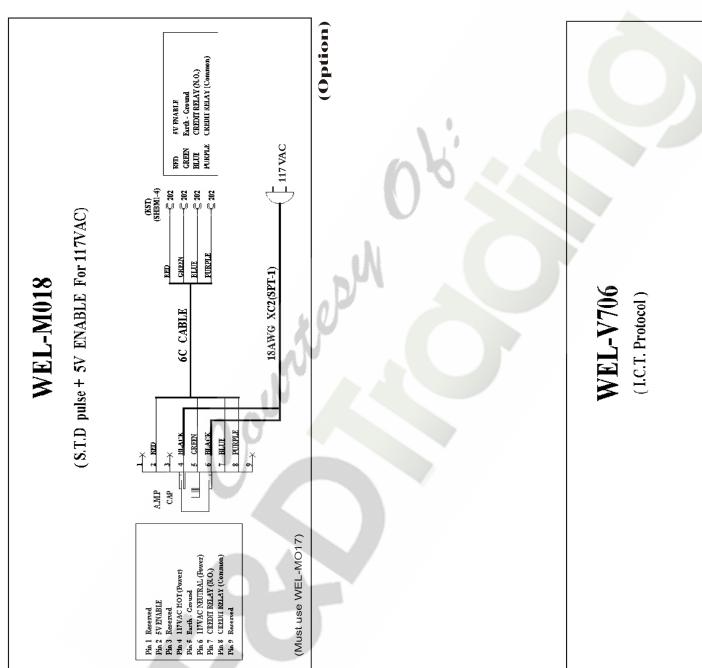
(Must use WEL-M018)



784C HOT (Prover)

CABLE

6 WHILE VELLOW.
7 DEUE



Ph.1 BLUE——
Ph.2 YELLOW—
Ph.3 GREN——
Ph.5 X———
Ph.6 X———
Ph.6 X———
Ph.6 RED——
Ph.7 BLACK——
Ph.8 WHIE—— RJ-45 VIEW 26 AWG 6C PHONE CABLE O (20 00 00 00 O) O D-SUB ?F TOP VIEW D-SUB(F) Reserved
-Reserved
-Reserved ₩ GE 122

-GND
-TX22
-RX22
-Reserved
-Reserved
-VCC
-RX11

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