

Mounting Hole



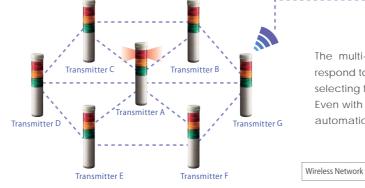
Item	Specification				
item	VE100-302US	VE25-302US			
Rated Voltage	Input: AC100V to 240V (50Hz	/60Hz) Output: DC12V			
Voltage Range	AC90V - AC	264V			
Operating Temperature/Humidity Range	0°C to 40°C / 35% to 85% R	H (No Condensation)			
Mounting Location	For Indoor Us	e Only			
Insulation Resistance	1MΩ or more with DC500V test current	nt between voltage line and FG			
Withstanding Voltage	10mA or more with AC1000V applied for 7	1 min between voltage line and FG			
Vibration Resistance	JIS C0040 Acceleration	speed of 19.6m/s2			
Outer Dimensions (Unit:mm)	(l) 580 x (h) 480 x (d) 70	(l) 270 x (h) 200 x (d) 70			
Mass (AC Adaptor Included)	about 5.8kg	about 1.9kg			
Maximum Power Consumption	about 12W	about 11W			
Conformity Standards	FCC Part 15 Subpart B Class A,				
	RoHS Compliance (DIRECTIVE 2002/95/EC)				

PATLITE's AirGRID Wireless Data Acquisition System to further improve productivity



Simply attach AirGRID transmitters on existing PATLITE 50mm or 60mm signal towers, to begin gathering data multiple machines. Even after machine hard-wire network. Moreover, machine wirelessly. Use the data to identify process layout changes or new machines are operating status data acquired can be bottlenecks.

Multihopping wireless mesh networking implemented for accurate and reliable communication



The multi-hop mesh network communication is flexible enough to respond to various environmental conditions when transmitting data by selecting the best route for radio wave communication. Even with modifications of the floor layout, data communication starts automatically from power-up. Wireless Network - - - Stable Wireless Route Routing function automatically selects optimum communication route This product doesn't need complicated wireless or network settings, the automatic selection for a good route to carry data communication is done as soon as the power source is connected. In addition, when an obstacle impares the data transmission of the wireless communication, the transmitter automatically searches for a different route to re-connect.

ent the VE for



BSV





HSST Ultra-slim MP3 3-light manually field-programmable controlled LED stack light kit annunciator

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AirGRID Solution FLEXIBLE LAYOUT

With the AirGRID, machine operation hard-wires for data communication

AirGRID Advantage COST PERFORMANCE

Initial investment cost of the AirGRID is status data can be archived instantly from much less than the installation cost of a installed, it is not necessary to re-install utilized to determine the necessary maintenance period





WSST Manual control box for up to 5 lights and 1 alarm (Stack Light Towers not included)

> +81-6-6763-8220 +81-6-6763-8221

> 1-310-328-3222 +1-310-328-2676 +65-6226-1111 +65-6324-1411

+86-21-6630-8969 +86-21-6630-8938 49-0-811 9981 9770-0 -49-0-811 9981 9770-9 82-2-523-6636 202 Seokwang Bldg. 1361-9 Seocho-dong, Seocho-gu, Seoul, 137-863 FAX +82-2-523-6637



32 built-in sounds with 8 channles and a 105dB (at 1m) speaker output



o ensure correct use of these products, read the "Instruction Manual" prior to use. Failure to follow all safeguards can result in fire, electric shock, or other accidents. Specifications are subject to change without notice.

For the benefit of mankind and the earth, Patlite is committed to developing environmentally friendly products. PATLITE ECO PROJECT



A Real-time Production Monitoring Solution

VE Series

The VE Series Visual LED Display is a simple-to-use, self-contained factory production monitoring system, designed for industrial use on the automated machinery and "Lean Manufacturing" production process. The VE display provides real-time visual feedback to workers and supervisors about production goals, progress and problems. VE Models are very easy to install and operate, supporting both local setup via wireless remote control or remote access from a network. PATLITE offers a choice of 2 VE models (25mm or 100mm character height), mounting brackets and compatable signal towers. VE Series fully supports the principles of "Kaizen" and helps achieve a "Visual Factory", where production information is quickly accessible and easy to understand.



Model VE100-304SU

- Improve Manufacturing Productivity
- Reduce Down Time for "Kaizen"
- Ideal for Lean Manufacturing



- Real-time Production Monitoring
- Improve Production Reports
- Easy Installation



Case Study

BEFORE

Wasted time was caused from an uneven production flow which was the result of machines in need of maintenance, operators waiting for parts, or call for help and Supervisors who did not know who was behind or





After each station had a VE Real-time LED DIsplay Board with a Signal Tower installed:

 \Rightarrow Reduced time waiting for parts or maintenance

 \Rightarrow Improved productivity

⇒ Improved work flow

 \Rightarrow Supervisors could respond to help operators who needed it

PLAN	Total number of parts to be produced
TAKT	Time in seconds allowed to make one part
TARGET	Number of parts to be produced during a given time (based on Takt time)
ACTUAL	Current number of parts made
STATUS	Number of parts made on schedule or behind schedule (based on Takt time)
Arbitrary	Parameter selectable from the user

VE Screen Display Selections

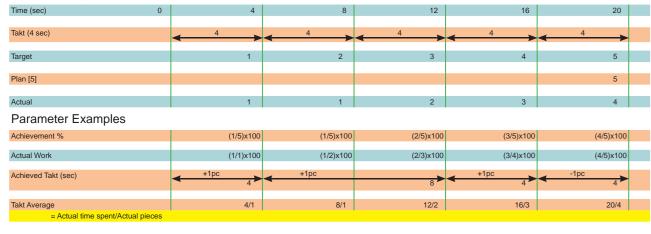
Five different combinations and one custom setting to display the VE to meet the right application.

Examples shown below use the following conditions: Plan = 2,000, Actual = 100; Target = 500; Total time from start = 8,000 seconds

	Plan	Total unit	s planned	Example: 200	00			
Type 1 Actual Status		Units mad	de now	Example: 100				
		Actual - T	arget	Example: 100 - 500 = -400				
	Plan	Total units planned			Example:	2000		
Type 2	Actual	Units mad	le now		Example:	ample: 100		
	Actual Ratio	Percenta	ge of plan made		Example:	kample: (100/2000) x 100 = 5%		
			-					
	Target	Units mad	de during	a preset time	Example:	500		
Type 3	Actual	Units mad	Jnits made now		Example:	ample: 100		
	Status	Actual - T	Actual - Target			ole: 100 - 500 = -400		
					•			
	Plan	Total units planned		· · · ·	mple: 2000			
Type 4	Actual	Units made now			Example:	xample: 100		
	Work Ratio	Percentage of target made			Example:	le: (100/500) x 100 = 20%		
					1			
	Plan	Total units planned		· · ·	ample: 2000			
Type 5	Target	Units made during a preset time			Example: 500			
	Actual	Units made now			Example:	100		
	Plan	Total units planned			Example:			
Type 6	Actual	Units mad	Units made now			Example: 100		
	Rem 1	Number short from plan			Example: 2000 - 100 = 1900			
	1							
	Arbitrary	Target	Units made during a pr		eset time			
Type 7	Arbitrary	Status	Actual - Target			Example: 100 - 500 = -400		
	Arbitrary	Takt Ave	Ave. sec per pcs.			Example: 8000/100 = 80 sec		

The chart below describes how the VE can be setup to calculate the results of a simple task using the "Takt" function. The Screen displays were set for "Type 5" and "Type 7" (arbitrary) to configure the results.

Sample Setup & Results

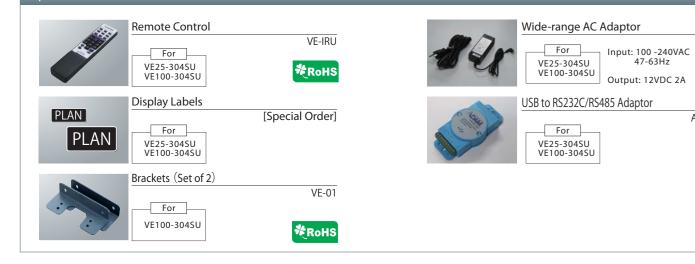


VE-AD02U

RoHS

ADAM-4561

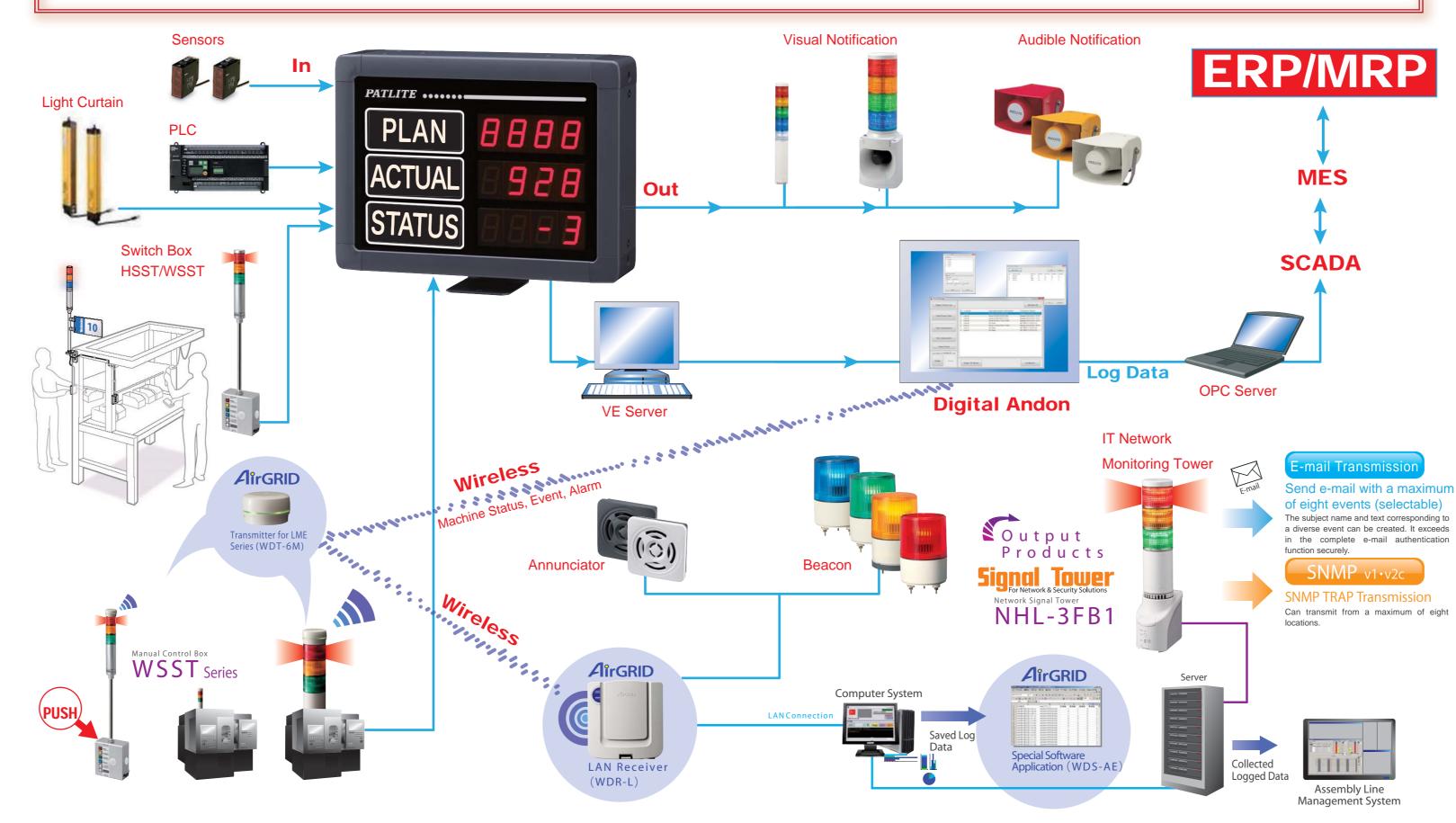
Options



VE Display Functionality

The data table below shows the items and description of the different combinations available to calculate and show the results for a "Real-time" factory environment.

Item	Contents								
Function Name			Label	Description					
	Plan Number		PLAN	Displays the final value	Displays the final value scheduled before production starts.				
	Target Number		TARGET	Displays the scheduled	Displays the scheduled value expected to reach during the production period.				
	Achievement Number		ACTUAL	Displays the actual value	Displays the actual value for completion during production.				
	Progress	Progress		Displays the value "nun	Displays the value "number of achievements minus target number".				
Display	Remainder1		QTY LEFT	Displays the planned value minus the achievement value.					
Item	Remainder2		QTY SHORT	Displays the achievement value minus the planned value.					
	Achievement Ratio		%PLAN	Displays the achievement value divided by the planned value multiplied by 100.					
	Actual Work Ratio		%TARGET	Displays the achieveme	Displays the achievement value divided by the target number multiplied by 100.				
	Achievement Takt		TAKT	Displays the recent pro	Displays the recent production duration based on the achievement input.				
	Takt Ave		TAKT ave	Displays the work-hours	s divided by the achievem	ient value.			
	From the following seven types of displays, one type can be selected. Types 1 through 6 are set, but the "User" type is capable of selecting three of the 10 items indicated in the section above.								
Display	Type 1	Туре 2	Туре 3	Type 4	Type 5	Type 6	User		
Contents	PLAN	PLAN	TARGET	TARGET	PLAN	PLAN	Arbitrary		
	ACTUAL	ACTUAL	ACTUAL	ACTUAL	TARGET	ACTUAL	Arbitrary		
	STATUS	%PLAN	STATUS	%TARGET	ACTUAL	QTY LEFT	Arbitrary		
Prescale Function	The achievement count	The achievement count-up input can be changed when bulk sizes or packages are counted versus one item at a time. (Prescale UP / Prescale DOWN count is possible)							
Takt Time	A base period (time unit: 1 second or 0.1 second) required to produce one product, with a target number that can be set up to measure takt time progress.								
Target Count Display "Stop"	When an input signal is entered in the "STOP" terminal, the numerical value on the top rung will flash.								
Working-hour Function	In conjunction with labor laws, the working hours and "Data Clear" time can be set up based on the maximum 16 hour work scheduling, and a maximum of 3 set ups can be made for measurement data clear time.								
Automatic Start Function	As soon as the power supply is switched on and the start of production time comes, this function will automatically start the measurements without the need for a terminal input to "Clear" and pressing the "Start" button from the remote control.								
LED Brightness Control	The brightness of the LED display can be changed to three levels.								
LED lighting/flashing	g The LED display can be turned on or off.								

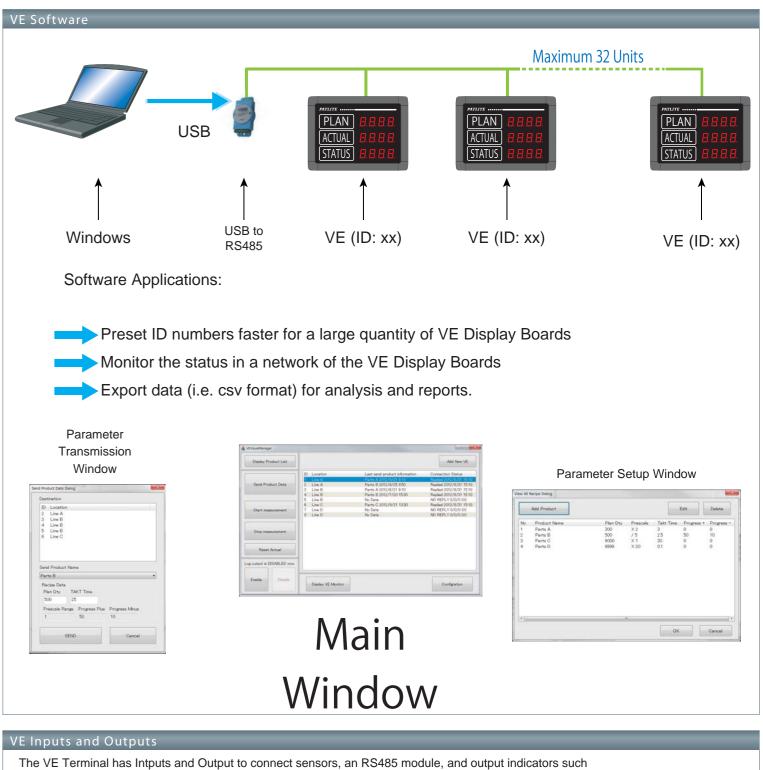


Factory Floor (Not Fully-automated)

PATLITE Solutions for Lean

Manufacturing on the Factory Floor

Operations, Maintenance, Data Center



as PATLITE signal towers or audible alarms, to indicate a specific condition.

Item	Contents					
Output	ACHIEVE	When the achievement number reaches the planned number, a 5 second output signal is sent.				
	GAIN+	When [Achievement Number minus Target Number] is greater than [GAIN + Preset Value], an output signal is sent.				
	LOSS -	When [Achievement Number minus Target Number] is less than [LOSS - Preset Value], an output signal is sent.				
	RESULTS	The achievement number is counted up.				
	COUNTDOWN	The achievement number is counted down.				
Input	CLEAR	The achievement number and target number will be reset to "0", and a new measurement is started.				
	STOP The target number is stopped when an input is entered. When stopped, the numerical value on the highest rung will flash as long as the stop input is he					
	FINISH	When an input is entered, the measurement will end.				
	REMOTE OFF	While an input on the terminal is entered, the input signal from a remote control is not received.				