Specifications

Specifications	SW-74	SW-74SI
Diamless	STN monochrome	LCD with touch switch
Display Element	(back light color : Green/Orange/Red) 〈Replacement unnecessary〉	
Liement	Life time of LCD : Av	erage 50,000 hrs (at 25°C)
Display		Indicated content switching (Acceleration+
Contents		Seismic intensity scale/Instrumental
		seismic intensity/SI value by internal setting)
Earthquake monitor screen	Present time	Present time
Earthquake	Earthquake generation time, Max. acceleration,	Earthquake generation time,
generation screen Earthquake hold screen	Seismic intensity scale, Alarm operation Reset button (Whole reset of alarm/buzzer)	Maximum value
Eartriquake noto screen Each setting screen	Trigger, Alarm, Date/time	Reset button (Whole reset of alarm/buzzer) Trigger, Alarm, Date/time
Maintenance screen	Pickup test, Earthquake history	Pickup test, Earthquake history
Maintenance screen	Fickup test, Laitiquake history	Alarm step : Upper7-step (ALM4~10)
		Individual setting (Acceleration/
		Seismic intensity scale/SI value
		Any setting is possible)
		Alarm setting value: 0.1~999.9 (Gal/Seismic
		intensity scale/Kine)
		(Setting interval 0.1Gal,
		0.0 is alarm operation OFF)
Extra Alarm		(Seismic intensity scale
		alarm is set by Instrumental
		seismic intensity value)
		Alarm contact : 1a contact (photo MOS relay)
		Independent COM 2-point (ALM
		1∼5, ALM6∼10, each 1-point)
		Contact rating: 200V-0.65A (AC/DC common,
		peak value) Used relay : Panasonic makes
	E	PD1a type (AQY277A)
Alarm Reset	a.External reset terminal (All step reset by no-voltage a contact) b.Automatic reset by built-in timer	
Method		I: 1-sec (0 is automatic reset OFF)
	1 3333sec. (Betting interva	1a/1b contact switching type
		Contact rating: 2A 30VDC
Fault Alarm		(Max.allowable voltage/current : 220VDC/2A)
		Used relay: Panasonic makes TK relay (ATK102)
	Acceleration : 0.1~999.9Gal	Alarm setting value : 0.1~999.9
	(Gas/Seismic intensity/Kine)	(Gal/Seismic intensity/Kine)
Alarm Buzzer	Setting interval : 0.1Gal,0.0 is buzzer	Setting interval : 0.1Gal,0.0 is buzzer
Alailii Buzzei	operation OFF	operation OFF
		(Seismic intensity scale alarm is set by
		Instrumental seismic intensity.)
Buzzer Reset	a.External reset terminal (Reset by no-voltage a contact)	
Method		eset by built-in timer
		II: 1-sec,0 is automatic reset OFF)
C a # : = 1 4	For external display/Maintenance (switching type) For external display (conforms to RS422) : MC2	
Serial1		conforms to RS422): MC2 onforms to RS232C): MC1
		onforms to RS232C): MC1 dy time),Charging time≦48hrs
Back-up Unit	The state of the s	
Mounting Method	(No function at the operation by optional power 24VDC) Wall type	
Ambient Temperature	0∼+50°C	
Humidity Range	10∼85%RH	
	100VAC±10%, 1Φ, 50/60Hz	
Power Supply		: 10% (option)
Power Consumption	≦50VA (≦30W at 24VDC)	≤100VA (≤70W at 24VDC)
Outer Dimensions		outside view
Deinted Oct	Panel : Similar to Munsell 5GY8/0.5	
Painted Color	Case : Munsell N6.0	
Weight	3kg approx.	

Specifications	SW-72	SW-72R
Detecting Method	Omni-directional non-directi	vity detection by vector product acceleration
Frequency Range	DC~10Hz(±10%)	
Acceleration Range	0.5~3000 Gal (3-component vector product)	
Low Pass Filter	30Hz (-3dB) 、4th butterworth	
	Measuring range : 0.1~1500 Kine (3-component	
SI Value		vector value)
Measuring		Period range: 0.1~2.5 sec (±10%) (Natural peri
Range		0.1 sec step, Calculation by 25 of
, and the second		1-freedom simulation filter)
	40	Damping : 2~30% (1% step any setting)
A/D Converter	16bit, 100Hz sampling	
Indication Alarm Step), 4-digit display (xxx.x or xxxx)
	Upper limit 3-step (ALM1~3)	Upper limit 3-step (ALM1~3) individual setting
	individual setting	(Acceleration/Seismic intensity scale/SI value :
	A I ti 0 4 - 000 00 - I*1	Internal setting is possible)
A.L O	Acceleration 0.1~999.9Gal*1	0.1~999.9 (Gal/Seismic intensity scale/Kine)
Alarm Setting	(Setting interval 0.1Gal, 0.0 is alarm	(Setting interval 0.1 Gal, 0.0 is alarm operation OF
Level	operation OFF)	(Seismic intensity alarm scale is set by Instrumen seismic intensity.)
	1a contact (Photo MOS roloy)	
Alarm Contact	1a contact (Photo MOS relay)	1a contact (Photo MOS relay, COM common) Contact rating 200V-0.65A (common for AC/DC,
	Contact rating 200V-0.65A	The state of the s
	(common for AC/DC, peak value)	peak value) Used relay: Panasonic makes
	Used relay: Panasonic makes PD1a type (AQY275A)	
		PD1a type (AQY275A)
Alarm Reset	a.External reset terminal (All step reset by no-voltage a contact)	
Method	b.Automatic reset by built-in timer	
	1~9999sec (Setting Int	terval: 1-sec., 0 is automatic reset OFF) 4~20mADC、Load 0~300Ω
	· ·	
D.O. O	Full scale: 10~3000Gal	Output content switching type
DC Output	(Setting interval : 1Gal)	(Acceleration/SI value/Seismic intensity
		scale by internal setting) Full scale value any setting
	Communication with SW-74	Communication with SW-74SI
Serial I/F	(Conforms to RS422)	(Conforms to RS422)
Clock		
		cy:≦70ppm (6sec/day)
Time Correction Input	±30 sec correction (ex	xternal input of no-voltage a contact)
Ambient Temperature	0~+50℃	
Humidity Range		10~100%RH
Power Supply		24VDC ±10% ^{**2}
Power Consumption	≦10W	≦15W
Outer Dimensions		See outside view
Structure	Water-proof structure (IP67) Aluminum die casting	
Material	Alt	*
Painted Color		Silver metric
Weight Mounting Method	4Kg	
Mounting Method	Installation on the ground (fixed by anchor)	
	Water-proof connector connected	
I/O Cable	Used cable : Fuji Electric Wire make Twisted cable (with shielded)	
i, o cable		CV-SB 0.3sq×10 pair
Outer diameter : 10.5 mm approx.		
Built-in accelerometer		
Pickup mod		VP-5511B/3
Conversion Metho	7. 7.	
Detection Metho		
Sensitivit		
Frequency Rang	0.1∼100Hz ±10%	
		0.1∼30Hz ±3%
Natural Frequen		> 300Hz

UD direction : $-39.2\sim+19.6\text{m/s}^2$ Linearity 0.3% full scale

*1 Initial setting value at factory shipping is 80,250,400 Gal
*2 When connected with SW-74 (74SI), power is supplied from SW-74 (74SI)

IMV CORPORATION







First edition Dec.2008 Cat.No.0901-①02SW74SIECP



Seismic Monitoring System

SW Series

The prevention of the secondary disaster by earthquake starts from the accurate measurement of earthquake. The installation of seismic monitoring system in the public area and plant is increased to prevent from the secondary disastor. Seismic Monitoring System "SW series" provide the versatile models to be used widely.

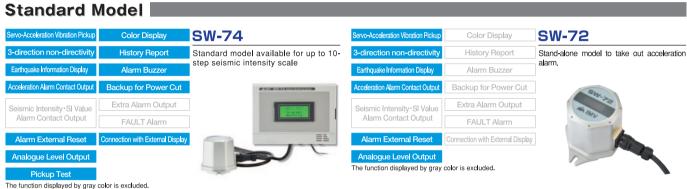


IMV CORPORATION

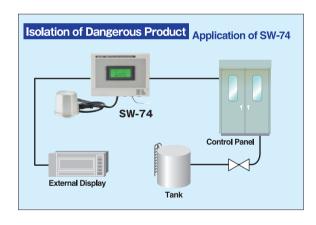
Seismic Monitoring System "SW series" use the high resolution servo acceleration pickup which can detect the minute earthquake. Many models from standard to high-grade type are provided.

High-Grade Model



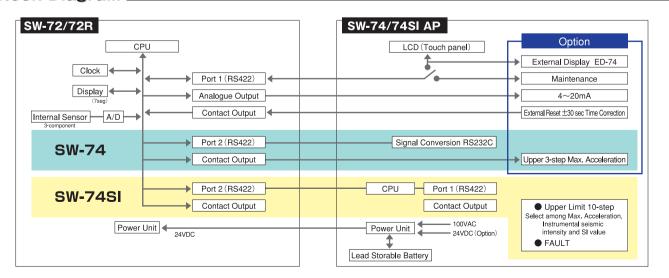


Application





Block Diagram



Features

■ Status is indicated by backlight color.

The importance can be distinguished from far away.











■ Touch panel type is operable by intuition



Direct operation makes speedy confirm.







Water-proof structure IP67 makes enable the installation on the place with rainy and dust.

Available for IMV old model



The dimension and position of fitting screw are the same as SW-90K, SW-90E. History up to 50 are saved.



■ Grade-up of existing model



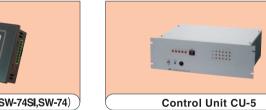
Existing pickup is available. Please contact with IMV in detail.

Options |

Options to expand the function are provided.



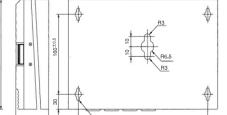
Indicates Acceleration value, Seismic intensity scale and Alarm generation time.

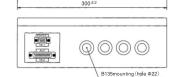


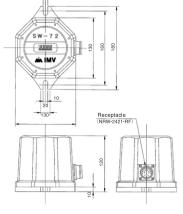
Takes out the alarm when 2-sets among 3-sets operate. It increases the reliability of control cut-off alarm contact output for seismic monitor.

Outer Dimensions

SW-74/SW-74SI (unit:mm)







SW-72/SW-72R