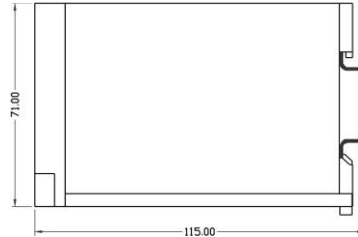
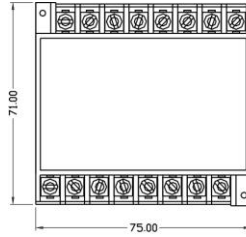


## ANALOG SIGNAL CONVERTERS / ISOLATORS – ISOLATED DUAL OUTPUT



All dimensions in mm

<b>FEATURES</b>	<ul style="list-style-type: none"> <li>• 4 Point Isolation of 2KVAC</li> <li>• Low ripple &amp; noise</li> <li>• Economical</li> </ul>	<ul style="list-style-type: none"> <li>• High reliability</li> <li>• Compact</li> </ul>	
<b>DESCRIPTION</b>	These units offer signal conversion with 4 point isolation between Input, Output1, Output2, Power supply. These are suitable for isolating analog signals equipments such as DC/AC drives, PLC, SCADA & others. This improves noise immunity & prevents ground circulating currents. These units are designed and manufactured to give consistent performance under varied atmospheric conditions.		
<b>ISOLATION</b>	Input – Output1/ Output2 Input – Aux Supply Output1/Output2– Aux Supply Output1– Output2	2KVAC, 1 minute	
<b>INPUT</b>	<b>Voltage / Current (DC) / Potentiometer / PT100</b>	<b>Thermocouple J/K type</b>	<b>Current (AC)</b>
<b>ACCURACY</b>	+/- 0.7% of Full Scale@35°C ambient temperature	+/- 0.7% of Full Scale@35°C ambient temperature + Thermocouple linearity error, +/- Cold junction compensation of 2°C	+/- 1% of Full Scale@35°C ambient temperature
<b>RESPONSE TIME</b>	Less than 15 ms		
<b>OUTPUT RIPPLE &amp; NOISE</b>	Less than 1% of Span		
<b>INPUT IMPEDANCE</b>	10V:100K ohm & 20mA:10 ohm		
<b>MAX INPUT VOLTAGE / CURRENT</b>	100V For voltage input, 30mA For current input		
<b>INDICATION</b>	Power on LED		
<b>ADJUSTMENT</b>	Zero & Span on front for each output		
<b>OUTPUT SPECIFICATIONS</b>	<ul style="list-style-type: none"> <li>• 0-10VDC, 20mA maximum</li> <li>• 4-20mA, 500Ω load maximum</li> <li>• 0-5VDC, 20mA maximum</li> </ul>		
<b>OVERLOAD PROTECTION</b>	Output short circuit current=30mA max		
<b>CONNECTION DIAGRAM</b>	<b>VOLTAGE</b>	<b>CURRENT / LOOP POWERED 4-20mA</b>	<b>POTENTIOMETER</b>
	<b>PT-100</b>	<b>J/K-TYPE</b>	<b>AC</b>
	NOTE: To use PT-100 (2W type) sensor short terminal No. 3 & 4 at input.		
	AS845-XXX SHAVISON		
<b>OPERATING AMBIENT</b>	0 ~ 50°C, 95% RH		
<b>STORAGE AMBIENT</b>	-20°C to 85°C		
<b>MOUNTING</b>	35 mm DIN rail		
<b>WEIGHT</b>	240 gms		

ORDERING INFORMATION	INPUT				OUTPUT1	OUTPUT2	AUX SUPPLY	NOMINAL	NOMINAL	RIPPLE
	VOLTAGE	CURRENT	TEMP	OTHERS				I/P : 230V AC/DC	I/P: 24V AC/DC	
								90 ~ 270V AC 100 ~ 300V DC	16 ~ 36V AC 18 ~ 36V DC	
						I/P FREQUENCY	47 ~ 63Hz			
	0-20mV DC*				0-10V DC	0-10V DC		AS845-117	AS845-517	< 50mV
					4-20mA	0-10V DC		AS845-112	AS845-512	
					4-20mA	4-20mA		AS845-118	AS845-518	
	0-75mV DC				0-10V DC	0-10V DC		AS845-104	AS845-504	
					4-20mA	0-10V DC		AS845-103	AS845-503	
					4-20mA	4-20mA		AS845-105	AS845-505	
					4-20mA	0-5V DC		AS845-203	AS845-523	
					0-10V DC	0-5V DC		AS845-204	AS845-524	
	0-200mV DC				0-10V DC	0-10V DC		AS845-119	AS845-519	
					4-20mA	0-10V DC		AS845-111	AS845-511	
					4-20mA	4-20mA		AS845-120	AS845-520	
	0-1V DC				0-10V DC	0-10V DC		AS845-125	AS845-525	
					4-20mA	0-10V DC		AS845-126	AS845-526	
					4-20mA	4-20mA		AS845-127	AS845-527	
	0-2V DC				0-10V DC	0-10V DC		AS845-128	AS845-528	
					4-20mA	0-10V DC		AS845-129	AS845-529	
					4-20mA	4-20mA		AS845-130	AS845-530	
	0-2.5V DC				0-10V DC	0-10V DC		AS845-131	AS845-531	
					4-20mA	0-10V DC		AS845-132	AS845-532	
					4-20mA	4-20mA		AS845-133	AS845-533	
	0-5V DC				0-10V DC	0-10V DC		AS845-134	AS845-534	
					4-20mA	0-10V DC		AS845-107	AS845-507	
					4-20mA	4-20mA		AS845-135	AS845-535	
					4-20mA	0-5V DC		AS845-207	AS845-536	
					0-20mA	0-10V DC		AS845-208	AS845-508	
					0-20mA	0-20mA		AS845-209	AS845-509	
	-3 to +10V DC				-3 to +10V DC	-3 to +10V DC		AS845-137	AS845-537	
	0-10V DC				0-10V DC	0-10V DC		AS845-140	AS845-540	
					4-20mA	0-10V DC		AS845-101	AS845-501	
					4-20mA	4-20mA		AS845-152	AS845-552	
					200Hz-2KHz	0-10V DC		AS845-121	AS845-521	
					200Hz-2KHz	4-20mA		AS845-122	AS845-522	
					0-20mA	0-10V DC		AS845-124	AS845-524	
					0-20mA	0-20mA		AS845-139	AS845-539	
	0-75V DC				0-10V DC	0-10V DC		AS845-141	AS845-541	
					4-20mA	0-10V DC		AS845-114	AS845-514	
					4-20mA	4-20mA		AS845-142	AS845-542	
					4-20mA	0-5V DC		AS845-214	AS845-538	
	0-120V DC				0-10V DC	0-10V DC		AS845-143	AS845-543	
					4-20mA	0-10V DC		AS845-115	AS845-515	
					4-20mA	4-20mA		AS845-144	AS845-544	
	0-220V DC				0-10V DC	0-10V DC		AS845-145	AS845-545	
					4-20mA	0-10V DC		AS845-113	AS845-513	
					4-20mA	4-20mA		AS845-146	AS845-546	
	0-300V DC				4-20mA	4-20mA		AS845-157	AS845-557	
					4-20mA	0-10V DC		AS845-160	AS845-561	
<b>Input : Current ( mA DC )</b>										
		0-20mA			0-10V DC	0-10V DC		AS845-147	AS845-547	
					4-20mA	0-10V DC		AS845-116	AS845-516	
					4-20mA	4-20mA		AS845-148	AS845-548	
		4-20mA			0-10V DC	0-10V DC	Note: Voltage between 18V and 0V is 16.5-18V DC, 25mA	AS845-149	AS845-549	
					4-20mA	0-10V DC		AS845-102	AS845-502	
					4-20mA	4-20mA		AS845-154	AS845-554	
					4-20mA	0-5V DC		AS845-150	AS845-550	
					0-5V DC	0-5V DC		AS845-151	AS845-551	
					0-20mA	0-10V DC		AS845-158	AS845-558	

ORDERING INFORMATION	INPUT				OUTPUT1	OUTPUT2	AUX SUPPLY	NOMINAL	NOMINAL	RIPPLE
	VOLTAGE	CURRENT	TEMP	OTHERS				I/P : 230V AC/DC	I/P : 24V AC/DC	
								90 ~ 270V AC 100 ~ 300V DC	16 ~ 36V AC 18 ~ 36V DC	
							47 ~ 63Hz			
<b>Input : Current ( Amp DC )</b>										
	0-1A DC			0-10V DC	0-10V DC		AS845-170	AS845-570		
				4-20mA	0-10V DC		AS845-171	AS845-571		
<b>Input : Current ( Amp AC )</b>										
	0-1A AC			0-10V DC	0-10V DC		AS865-101	AS865-501		
				4-20mA	0-10V DC		AS865-102	AS865-502		
				4-20mA	4-20mA		AS865-103	AS865-503		
	0-5A AC			0-10V DC	0-10V DC		AS865-104	AS865-504		
				4-20mA	0-10V DC		AS865-105	AS865-505		
				4-20mA	4-20mA		AS865-106	AS865-506		
<b>Input : Others</b>										
			Pot / Resistor 1K ~10K	0-10V DC	0-10V DC		AS845-155	AS845-555		
				4-20mA	0-10V DC		AS845-106	AS845-506		
				4-20mA	4-20mA		AS845-156	AS845-556		
				0-20mA	0-10V DC		AS845-159	AS845-559		
				0-5V DC	0-5V DC		AS845-161	AS845-561		
<b>Input : Thermocouple K Type</b>										
		-200 to +200°C		0-10V DC	0-10V DC		AS845-215	AS845-615		
				4-20mA	0-10V DC		AS845-216	AS845-616		
				4-20mA	4-20mA		AS845-217	AS845-617		
		-100 to +100°C		0-10V DC	0-10V DC		AS845-218	AS845-618		
				4-20mA	0-10V DC		AS845-219	AS845-619		
				4-20mA	4-20mA		AS845-220	AS845-620		
		0 to 100°C		0-10V DC	0-10V DC		AS845-221	AS845-621		
				4-20mA	0-10V DC		AS845-222	AS845-622		
				4-20mA	4-20mA		AS845-223	AS845-623		
		0 to 200°C		0-10V DC	0-10V DC		AS845-224	AS845-624		
				4-20mA	0-10V DC		AS845-225	AS845-625		
				4-20mA	4-20mA		AS845-226	AS845-626		
		0 to 250°C		4-20mA	0-5V DC		AS845-248	AS845-648		
		0 to 300°C		0-10V DC	0-10V DC		AS845-227	AS845-627		
				4-20mA	0-10V DC		AS845-228	AS845-628		
				4-20mA	4-20mA		AS845-229	AS845-629		
		0 to 400°C		0-10V DC	0-10V DC		AS845-230	AS845-630		
				4-20mA	0-10V DC		AS845-231	AS845-631		
				4-20mA	4-20mA		AS845-232	AS845-632		
		0 to 500°C		0-10V DC	0-10V DC		AS845-233	AS845-633		
				4-20mA	0-10V DC		AS845-234	AS845-634		
				4-20mA	4-20mA		AS845-235	AS845-635		
		0 to 600°C		0-10V DC	0-10V DC		AS845-236	AS845-636		
				4-20mA	0-10V DC		AS845-237	AS845-637		
				4-20mA	4-20mA		AS845-238	AS845-638		
		0 to 800°C		0-10V DC	0-10V DC		AS845-239	AS845-639		
				4-20mA	0-10V DC		AS845-240	AS845-640		
				4-20mA	4-20mA		AS845-241	AS845-641		
		0 -1000°C		0-10V DC	0-10V DC		AS845-242	AS845-642		
				4-20mA	0-10V DC		AS845-243	AS845-643		
				4-20mA	4-20mA		AS845-244	AS845-644		
		0-1200°C		0-10V DC	0-10V DC		AS845-245	AS845-645		
				4-20mA	0-10V DC		AS845-246	AS845-646		
				4-20mA	4-20mA		AS845-247	AS845-647		
<b>Input : Thermocouple J Type</b>										
		0 to 100°C		0-10V DC	0-10V DC		AS845-251	AS845-651		
				4-20mA	0-10V DC		AS845-252	AS845-652		
				4-20mA	4-20mA		AS845-253	AS845-653		

< 50mV

ORDERING INFORMATION	INPUT				OUTPUT1	OUTPUT2	AUX SUPPLY I/P FREQUENCY	NOMINAL I/P : 230V AC/DC	NOMINAL I/P: 24V AC/DC	RIPPLE		
	VOLTAGE	CURRENT	TEMP	OTHERS				90 ~ 270V AC 100 ~ 300V DC	16 ~ 36V AC 18 ~ 36V DC			
								47 ~ 63Hz				
			0 to 200°C		0-10V DC	0-10V DC		AS845-254	AS845-654	< 50mV		
					4-20mA	0-10V DC		AS845-255	AS845-655			
					4-20mA	4-20mA		AS845-256	AS845-656			
			0 to 300°C		0-10V DC	0-10V DC	AS845-257	AS845-657				
					4-20mA	0-10V DC	AS845-258	AS845-658				
					4-20mA	4-20mA	AS845-259	AS845-659				
			0 to 400°C		0-10V DC	0-10V DC	AS845-260	AS845-660				
					4-20mA	0-10V DC	AS845-261	AS845-661				
					4-20mA	4-20mA	AS845-262	AS845-662				
			0 to 500°C		0-10V DC	0-10V DC	AS845-263	AS845-663				
					4-20mA	0-10V DC	AS845-264	AS845-664				
					4-20mA	4-20mA	AS845-265	AS845-665				
			0 to 600°C		0-10V DC	0-10V DC	AS845-266	AS845-666				
					4-20mA	0-10V DC	AS845-267	AS845-667				
					4-20mA	4-20mA	AS845-268	AS845-668				
			0 to 700°C		0-10V DC	0-10V DC	AS845-269	AS845-669				
					4-20mA	0-10V DC	AS845-270	AS845-670				
					4-20mA	4-20mA	AS845-271	AS845-671				
			0 to 800°C		0-10V DC	0-10V DC	AS845-272	AS845-672				
					4-20mA	0-10V DC	AS845-273	AS845-673				
					4-20mA	4-20mA	AS845-274	AS845-674				
	<b>Input : RTD - PT100, 2 or 3 Wire</b>											
				-100 to +100°C		0-10V DC	0-10V DC		AS845-301		AS845-701	< 50mV
						4-20mA	0-10V DC		AS845-302		AS845-702	
						4-20mA	4-20mA		AS845-303		AS845-703	
				-50 to +200°C		0-10V DC	0-10V DC	AS845-304	AS845-704			
						4-20mA	0-10V DC	AS845-305	AS845-705			
						4-20mA	4-20mA	AS845-306	AS845-706			
				-50 to +50°C		0-10V DC	0-10V DC	AS845-307	AS845-707			
						4-20mA	0-10V DC	AS845-308	AS845-708			
						4-20mA	4-20mA	AS845-309	AS845-709			
				0 to 100°C		0-10V DC	0-10V DC	AS845-310	AS845-710			
						4-20mA	0-10V DC	AS845-311	AS845-711			
4-20mA						4-20mA	AS845-312	AS845-712				
			0 to 200°C		0-10V DC	0-10V DC	AS845-313	AS845-713				
					4-20mA	0-10V DC	AS845-314	AS845-714				
					4-20mA	4-20mA	AS845-315	AS845-715				
			0 to 300°C		0-10V DC	0-10V DC	AS845-316	AS845-716				
					4-20mA	0-10V DC	AS845-317	AS845-717				
					4-20mA	4-20mA	AS845-318	AS845-718				
			0 to 400°C		0-10V DC	0-10V DC	AS845-319	AS845-719				
					4-20mA	0-10V DC	AS845-320	AS845-720				
					4-20mA	4-20mA	AS845-321	AS845-721				
			0 to 500°C		0-10V DC	0-10V DC	AS845-322	AS845-722				
					4-20mA	0-10V DC	AS845-323	AS845-723				
					4-20mA	4-20mA	AS845-324	AS845-724				
			0 to 600°C		0-10V DC	0-10V DC	AS845-325	AS845-725				
					4-20mA	0-10V DC	AS845-326	AS845-726				
					4-20mA	4-20mA	AS845-327	AS845-727				
			0 to 700°C		0-10V DC	0-10V DC	AS845-328	AS845-728				
					4-20mA	0-10V DC	AS845-329	AS845-729				
					4-20mA	4-20mA	AS845-330	AS845-730				
			0 to 800°C		0-10V DC	0-10V DC	AS845-331	AS845-731				
					4-20mA	0-10V DC	AS845-332	AS845-732				
					4-20mA	4-20mA	AS845-333	AS845-733				

NOTE: \* Not suitable for load cell application.