

26 09 Instrumentation and Control for Electrical Systems

26 09 13 – Electrical Power Monitoring

26 09 13.10 Switchboard Instruments

		Crew	Daily Output	Labor-Hours	Unit	Material	2022 Bare Costs Labor	Equipment	Total	Total Incl O&P
0010	SWITCHBOARD INSTRUMENTS 3 phase, 4 wire									
0100	AC indicating, ammeter & switch	1 Elec	8	1	Ea.	4,675	66		4,741	5,225
0200	Voltmeter & switch		8	1		3,775	66		3,841	4,250
0300	Wattmeter		8	1		3,625	66		3,691	4,075
0400	AC recording, ammeter	1 Elec	4	2	Ea.	6,450	132		6,582	7,300
0500	Voltmeter		4	2		6,450	132		6,582	7,300
0600	Ground fault protection, zero sequence		2.70	2.963		5,700	196		5,896	6,550
0700	Ground return path		2.70	2.963		5,700	196		5,896	6,550
0800	3 current transformers, 5 to 800 amp		2	4		2,650	265		2,915	3,325
0900	1,000 to 1,500 amp		1.30	6.154		3,800	405		4,205	4,800
1200	2,000 to 4,000 amp		1	8		4,500	530		5,030	5,725
1300	Fused potential transformer, maximum 600 volt		8	1		995	66		1,061	1,200

26 09 13.30 Smart Metering

0010	SMART METERING , In panel									
0100	Single phase, 120/208 volt, 100 amp	G 1 Elec	8.78	.911	Ea.	410	60.50		470.50	540
0120	200 amp	G	8.78	.911		390	60.50		450.50	520
0200	277 volt, 100 amp	G	8.78	.911		410	60.50		470.50	540
0220	200 amp	G	8.78	.911		460	60.50		520.50	600
1100	Three phase, 120/208 volt, 100 amp	G	4.69	1.706		880	113		993	1,125
1120	200 amp	G	4.69	1.706		850	113		963	1,100
1130	400 amp	G	4.69	1.706		960	113		1,073	1,225
1140	800 amp	G	4.69	1.706		1,125	113		1,238	1,400
1150	1,600 amp	G	4.69	1.706		1,125	113		1,238	1,400
1200	277/480 volt, 100 amp	G	4.69	1.706		965	113		1,078	1,250
1220	200 amp	G	4.69	1.706		965	113		1,078	1,250
1230	400 amp	G	4.69	1.706		965	113		1,078	1,250
1240	800 amp	G	4.69	1.706		1,225	113		1,338	1,525
1250	1,600 amp	G	4.69	1.706		1,225	113		1,338	1,525
2000	Data recorder, 8 meters	G	10.97	.729		2,300	48.50		2,348.50	2,600
2100	16 meters	G	8.53	.938		3,025	62		3,087	3,425
3000	Software package, per meter, basic	G				193			193	212
3100	Premium	G				510			510	560

26 09 23 – Lighting Control Devices

26 09 23.10 Energy Saving Lighting Devices

0010	ENERGY SAVING LIGHTING DEVICES									
0100	Occupancy sensors, passive infrared ceiling mounted	G 1 Elec	7	1.143	Ea.	77.50	75.50		153	197
0110	Ultrasonic ceiling mounted	G	7	1.143		73.50	75.50		149	193
0120	Dual technology ceiling mounted	G	6.50	1.231		125	81.50		206.50	259
0150	Automatic wall switches	G	24	.333		90	22		112	132
0160	Daylighting sensor, manual control, ceiling mounted	G	7	1.143		83	75.50		158.50	203
0170	Remote and dimming control with remote controller	G	6.50	1.231		192	81.50		273.50	330
0200	Passive infrared ceiling mounted		6.50	1.231		37.50	81.50		119	163
0400	Remote power pack	G 1 Elec	10	.800	Ea.	37.50	53		90.50	120
0450	Photoelectric control, S.P.S.T. 120 V	G	8	1		19.85	66		85.85	121
0500	S.P.S.T. 208 V/277 V	G	8	1		23	66		89	124
0550	D.P.S.T. 120 V	G	6	1.333		182	88.50		270.50	330
0600	D.P.S.T. 208 V/277 V	G	6	1.333		207	88.50		295.50	360
0650	S.P.D.T. 208 V/277 V	G	6	1.333		201	88.50		289.50	350
0660	Daylight level sensor, wall mounted, on/off or dimming	G	8	1		135	66		201	248