

Enka Insaat ve Sanayi A.S. /Moscow City Business Center C Block Building Automation System

Prepared : Süleyman AKDEMİR / 12.02.2007 / Rev.1

Item No	Description	Point type				Equipment model and description											
		AI-Analog Inputs	AO-Analog Outputs	DI-Digital Inputs	DO-Digital Outputs	DPS400	S20230-2POS-SW	S20010	T6950A1026	LF20	EH7015B1020	VF20T	T7413A1041	SN10-395	DCMV10	S6065A2001	KSW230
	Substation CP-5912 (56th floor Mechanical Room)																
1	Cooling Tower CT-3																
CT3a-TS	CT-3a Supply water temperature	1	0	0	0							1					
CT3a-FS	CT-3a Flow status	0	0	1	0												1
	CT-3a Water reservoir min.level	0	0	1	0	(from level switch-supplied by Evapco)											
	CT-3a Water reservoir max.level	0	0	1	0	(from level switch-supplied by Evapco)											
	CT-3a Electric heaters start/stop	0	0	0	1	(to MCC-40 / EИЦС-40)											
	CT-3a Electric heater status	0	0	2	0	(from MCC-40 / EИЦС-40)											
	CT-3a Electric heater fault	0	0	2	0	(from MCC-40 / EИЦС-40)											
CV11	CT-3a Filling valve command	0	0	0	1	(DN50/PN16 2-Way valve, N.C., V5328A1096/ML6421A3005)											
CV12	CT-3a C.T. Pipe drain valve command	0	0	0	1	(DN25/PN16 2-Way valve, N.O., V5328A1062/ML6420A3007)											
CV13.1	CT-3a C.T.Reservoir drain valve command	0	1	0	0	(DN50/PN16 2-Way valve, N.O., V5328A1096/ML7421A3004)											
CT3a-CM	CT-3a Water conductivity	1	0	1	0	(From Conductivity Transmitter-Supplied by ENKA)											
CT3a-WM	CT-3a Drained water quantity	0	0	1	0	(Watermeter, DN50/PN16 Sontay MW-HFD2-100L)											
	CT-3a Dolphin system status	0	0	2	0	(from dolphin system)											
CT3b-TS	CT-3b Supply water temperature	1	0	0	0							1					
CT3b-FS	CT-3b Flow status	0	0	1	0												1
	CT-3b Water reservoir min.level	0	0	1	0	(from level switch-supplied by Evapco)											
	CT-3b Water reservoir max.level	0	0	1	0	(from level switch-supplied by Evapco)											
	CT-3b Electric heaters start/stop	0	0	0	1	(to MCC-40 / EИЦС-40)											
	CT-3b Electric heater status	0	0	2	0	(from MCC-40 / EИЦС-40)											
	CT-3b Electric heater fault	0	0	2	0	(from MCC-40 / EИЦС-40)											
CV14	CT-3b Filling valve command	0	0	0	1	(DN50/PN16 2-Way valve, N.C., V5328A1096/ML6421A3005)											
CV15	CT-3b C.T. Pipe drain valve command	0	0	0	1	(DN25/PN16 2-Way valve, N.O., V5328A1062/ML6420A3007)											
CV13.2	CT-3b C.T.Reservoir drain valve command	0	1	0	0	(DN50/PN16 2-Way valve, N.O., V5328A1096/ML7421A3004)											
CT3b-CM	CT-3b Water conductivity	1	0	1	0	(From Conductivity Transmitter-Supplied by ENKA)											
CT3b-WM	CT-3b Drained water quantity	0	0	1	0	(Watermeter, DN50/PN16 Sontay MW-HFD2-100L)											
	CT-3b Dolphin system status	0	0	2	0	(from dolphin system)											
CT3-TR	CT-3 Intake water temperature	1	0	0	0							1					
CV49	Proportional valve command	0	1	0	0	(DN300/PN10 Butterfly valve, V5422E1019)											
CV53	Proportional valve command	0	1	0	0	(DN300/PN10 Butterfly valve, V5422E1019)											
2	Cooling Tower CT-4																
CT4a-TS	CT-4a Supply water temperature	1	0	0	0							1					
CT4a-FS	CT-4a Flow status	0	0	1	0												1
	CT-4a Water reservoir min.level	0	0	1	0	(from level switch-supplied by Evapco)											
	CT-4a Water reservoir max.level	0	0	1	0	(from level switch-supplied by Evapco)											
	CT-4a Electric heaters start/stop	0	0	0	1	(to MCC-40 / EИЦС-40)											
	CT-4a Electric heater status	0	0	2	0	(from MCC-40 / EИЦС-40)											

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	CT-4a Electric heater fault	0	0	2	0	<i>(from MCC-40 / EIIIC-40)</i>											
CV16	CT-4a Filling valve command	0	0	0	1	(DN50/PN16 2-Way valve, N.C., V5328A1096/ML6421A3005)											
CV17	CT-4a C.T. Pipe drain valve command	0	0	0	1	(DN25/PN16 2-Way valve, N.O., V5328A1062/ML6420A3007)											
CV18.1	CT-4a C.T.Reservoir drain valve command	0	1	0	0	(DN50/PN16 2-Way valve, N.O., V5328A1096/ML7421A3004)											
CT4a-CM	CT-4a Water conductivity	1	0	1	0	(From Conductivity Transmitter-Supplied by ENKA)											
CT4a-WM	CT-4a Drained water quantity	0	0	1	0	(Watermeter, DN50/PN16 Sontay MW-HFD2-100L)											
	CT-4a Dolphin system status	0	0	2	0	<i>(from dolphin system)</i>											
CT4b-TS	CT-4b Supply water temperature	1	0	0	0							1					
CT4b-FS	CT-4b Flow status	0	0	1	0												1
	CT-4b Water reservoir min.level	0	0	1	0	<i>(from level switch-supplied by Evapco)</i>											
	CT-4b Water reservoir max.level	0	0	1	0	<i>(from level switch-supplied by Evapco)</i>											
	CT-4b Electric heaters start/stop	0	0	0	1	<i>(to MCC-40 / EIIIC-40)</i>											
	CT-4b Electric heater status	0	0	2	0	<i>(from MCC-40 / EIIIC-40)</i>											
	CT-4b Electric heater fault	0	0	2	0	<i>(from MCC-40 / EIIIC-40)</i>											
CV19	CT-4b Filling valve command	0	0	0	1	(DN50/PN16 2-Way valve, N.C., V5328A1096/ML6421A3005)											
CV20	CT-4b C.T. Pipe drain valve command	0	0	0	1	(DN25/PN16 2-Way valve, N.O., V5328A1062/ML6420A3007)											
CV18.2	CT-4b C.T.Reservoir drain valve command	0	1	0	0	(DN50/PN16 2-Way valve, N.O., V5328A1096/ML7421A3004)											
CT4b-CM	CT-4b Water conductivity	1	0	1	0	(From Conductivity Transmitter-Supplied by ENKA)											
CT4b-WM	CT-4b Drained water quantity	0	0	1	0	(Watermeter, DN50/PN16 Sontay MW-HFD2-100L)											
	CT-4b Dolphin system status	0	0	2	0	<i>(from dolphin system)</i>											
CT4-TR	CT-4 Intake water temperature	1	0	0	0							1					
CV50	Proportional valve command	0	1	0	0	(DN300/PN10 Butterfly valve, V5422E1019)											
CV54	Proportional valve command	0	1	0	0	(DN300/PN10 Butterfly valve, V5422E1019)											
3	Others																
	220VAC v-aut.status	0	0	1	0	<i>(from CP5912)</i>											
	24VAC v-aut.status	0	0	1	0	<i>(from CP5912)</i>											
	Spare Points	6	8	14	13												
	Total :	16	16	60	25	0	0	0	0	0	0	3	0	0	0	0	2
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						Differential Pressure Switch	On/off damper actuator, 220V,S/R,E/S	Proportional damper actuator, 24Vac, S/R	Frost protection thermostat	Duct type temperature sensor	Duct type temperature/humidity sensor	Imm. type temperature sensor	Imm. type temperature sensor	Pressure sensor	Presostat, 0-10Bar	Flow switch, 1" ...8", 30Bar	Flow Switch, 10" ...30Bar

Honeywell Excel 500 Controller
128 I/O Capacity

at 59th Flr.



XCL5010
CPU:C-5C12
CP-5912

