

Oxygen Deficiency Monitor Naming

Following the naming convention format of DeviceType:Area:Position:[instance:]Attribute

Each of the main rooms of the cryoplant building (East and West compressor rooms an cold box room) has two Oxygraf devices (East side and West side) with 4 channels each (0 to 3).

Device type: ODM

Area:

- CR1 for cryoplant 1 a.k.a. West cryoplant room
- CR0 for the cold box room
- CR2 for cryoplant 2 a.k.a. East cryoplant room

Position:

- W for West side of the area
- E for East side of the area

Instance:

- 0 for Channel 0
- 1 for Channel 1
- 2 for Channel 2
- 3 for Channel 3

Full PV names mapped to PLC channels

Commands

Label	PV name	Ladder Logic	PLC's Type:	EPICS Bit	Logic 0	Logic 1	Logic 0	Logic 1
		Name		Offset	State Name	State Name	Alarm	Alarm
WCR West Oxygraf Disable	ODM:CR1:1:SET_OXGF_DISABLE	a0.i0	input, virtual	7	NOT_DISABLE	DISABLE	NO_ALARM	NO_ALARM
WCR West Oxygraf Enable	ODM:CR1:1:SET_OXGF_ENABLE	a0.i1	input, virtual	6	NOT_ENABLE	ENABLE	NO_ALARM	NO_ALARM
WCR East Oxygraf Disable	ODM:CR1:2:SET_OXGF_DISABLE	a0.i2	input, virtual	5	NOT_DISABLE	DISABLE	NO_ALARM	NO_ALARM
WCR East Oxygraf Enable	ODM:CR1:2:SET_OXGF_ENABLE	a0.i3	input, virtual	4	NOT_ENABLE	ENABLE	NO_ALARM	NO_ALARM
CBR West Oxygraf Disable	ODM:CR0:1:SET_OXGF_DISABLE	a0.i4	input, virtual	3	NOT_DISABLE	DISABLE	NO_ALARM	NO_ALARM
CBR West Oxygraf Enable	ODM:CR0:1:SET_OXGF_ENABLE	a0.i5	input, virtual	2	NOT_ENABLE	ENABLE	NO_ALARM	NO_ALARM
CBR East Oxygraf Disable	ODM:CR0:2:SET_OXGF_DISABLE	a0.i6	input, virtual	1	NOT_DISABLE	DISABLE	NO_ALARM	NO_ALARM
CBR East Oxygraf Enable	ODM:CR0:2:SET_OXGF_ENABLE	a0.i7	input, virtual	0	NOT_ENABLE	ENABLE	NO_ALARM	NO_ALARM
ECR West Oxygraf Disable	ODM:CR2:1:SET_OXGF_DISABLE	a0.i8	input, virtual	15	NOT_DISABLE	DISABLE	NO_ALARM	NO_ALARM
ECR West Oxygraf Enable	ODM:CR2:1:SET_OXGF_ENABLE	a0.i9	input, virtual	14	NOT_ENABLE	ENABLE	NO_ALARM	NO_ALARM
ECR East OxygrafDisable	ODM:CR2:2:SET_OXGF_DISABLE	a0.i10	input, virtual	13	NOT_DISABLE	DISABLE	NO_ALARM	NO_ALARM
ECR East Oxygraf Enable	ODM:CR2:2:SET_OXGF_ENABLE	a0.i11	input, virtual	12	NOT_ENABLE	ENABLE	NO_ALARM	NO_ALARM
WCR Alarm Bypass	ODM:CR1:SET_AL_BYPASS	a0.i12	input, virtual	11	NOT_BYPASS	BYPASS	NO_ALARM	NO_ALARM
WCR Alarm Unbypass	ODM:CR1:SET_AL_UNBYPASS	a0.i13	input, virtual	10	NOT_UNBYPASS	UNBYPASS	NO_ALARM	NO_ALARM
WCR Alarm Mute	ODM:CR1:SET_AL_MUTE	a0.i14	input, virtual	9	NOT_MUTE	MUTE	NO_ALARM	NO_ALARM
WCR Alarm Unmute	ODM:CR1:SET_AL_UNMUTE	a0.i15	input, virtual	8	NOT_UNMUTE	UNMUTE	NO_ALARM	NO_ALARM
CBR Alarm Bypass	ODM:CR0:SET_AL_BYPASS	a0.i16	input, virtual	23	NOT_BYPASS	BYPASS	NO_ALARM	NO_ALARM
CBR Alarm Unbypass	ODM:CR0:SET_AL_UNBYPASS	a0.i17	input, virtual	22	NOT_UNBYPASS	UNBYPASS	NO_ALARM	NO_ALARM
CBR Alarm Mute	ODM:CR0:SET_AL_MUTE	a0.i18	input, virtual	21	NOT_MUTE	MUTE	NO_ALARM	NO_ALARM
CBR Alarm Unmute	ODM:CR0:SET_AL_UNMUTE	a0.i19	input, virtual	20	NOT_UNMUTE	UNMUTE	NO_ALARM	NO_ALARM
ECR Alarm Bypass	ODM:CR2:SET_AL_BYPASS	a0.i20	input, virtual	19	NOT_BYPASS	BYPASS	NO_ALARM	NO_ALARM
ECR Alarm Unbypass	ODM:CR2:SET_AL_UNBYPASS	a0.i21	input, virtual	18	NOT_UNBYPASS	UNBYPASS	NO_ALARM	NO_ALARM
ECR Alarm Mute	ODM:CR2:SET_AL_MUTE	a0.i22	input, virtual	17	NOT_MUTE	MUTE	NO_ALARM	NO_ALARM
ECR Alarm Unmute	ODM:CR2:SET_AL_UNMUTE	a0.i23	input, virtual	16	NOT_UNMUTE	UNMUTE	NO_ALARM	NO_ALARM
Alarm Reset	ODM:CR00:SET_AL_RESET	a0.i24	input, virtual	31	NOT_RESET	RESET	NO_ALARM	NO_ALARM
WCR Fan Force	ODM:CR1:SET_FAN_FORCE	a0.i25	input, virtual	30	NOT_FAN_FORCE	FAN_FORCE	NO_ALARM	NO_ALARM
WCR Fan Unforce	ODM:CR1:SET_FAN_UNFORCE	a0.i26	input, virtual	29	NOT_FAN_UNFORCE	FAN_UNFORCE	NO_ALARM	NO_ALARM
CBR Fan Force	ODM:CR0:SET_FAN_FORCE	a0.i27	input, virtual	28	NOT_FAN_FORCE	FAN_FORCE	NO_ALARM	NO_ALARM
CBR Fan Unforce	ODM:CR0:SET_FAN_UNFORCE	a0.i28	input, virtual	27	NOT_FAN_UNFORCE	FAN_UNFORCE	NO_ALARM	NO_ALARM

ECR Fan Force	ODM:CR2:SET_FAN_FORCE	a0.i29	input, virtual	26	NOT_FAN_FORCE	FAN_FORCE	NO_ALARM	NO_ALARM
ECR Fan Unforce	ODM:CR2:SET_FAN_UNFORCE	a0.i30	input, virtual	25	NOT_FAN_UNFORCE	FAN_UNFORCE	NO_ALARM	NO_ALARM

Readback

Label	PV name	Ladder Logic	PLC's Type:	EPICS Bit	Logic 0	Logic 1	Logic 0	Logic 1
		Name		Offset	State Name	State Name	Alarm	Alarm
WCR West Oxigraf Ch0 Real	ODM:CR1:1:FAULT	a0.o0	output, virtual	7	FAULT	OK	MAJOR	NO_ALARM
WCR West Oxigraf Ch0 Latch	ODM:CR1:1:FAULT_LTH	a0.o1	output, virtual	6	FAULT	OK	MAJOR	NO_ALARM
WCR West Oxigraf Ch1 Real	ODM:CR1:1:1:FAULT	a0.o2	output, virtual	5	FAULT	OK	MAJOR	NO_ALARM
WCR West Oxigraf Ch1 Latch	ODM:CR1:1:1:FAULT_LTH	a0.o3	output, virtual	4	FAULT	OK	MAJOR	NO_ALARM
WCR West Oxigraf Ch2 Real	ODM:CR1:1:2:FAULT	a0.o4	output, virtual	3	FAULT	OK	MAJOR	NO_ALARM
WCR West Oxigraf Ch2 Latch	ODM:CR1:1:2:FAULT_LTH	a0.o5	output, virtual	2	FAULT	OK	MAJOR	NO_ALARM
WCR West Oxigraf Ch3 Real	ODM:CR1:1:3:FAULT	a0.o6	output, virtual	1	FAULT	OK	MAJOR	NO_ALARM
WCR West Oxigraf Ch3 Latch	ODM:CR1:1:3:FAULT_LTH	a0.o7	output, virtual	0	FAULT	OK	MAJOR	NO_ALARM
WCR East Oxigraf Ch0 Real	ODM:CR1:2:FAULT	a0.o8	output, virtual	15	FAULT	OK	MAJOR	NO_ALARM
WCR East Oxigraf Ch0 Latch	ODM:CR1:2:FAULT_LTH	a0.o9	output, virtual	14	FAULT	OK	MAJOR	NO_ALARM
WCR East Oxigraf Ch1 Real	ODM:CR1:2:1:FAULT	a0.o10	output, virtual	13	FAULT	OK	MAJOR	NO_ALARM
WCR East Oxigraf Ch1 Latch	ODM:CR1:2:1:FAULT_LTH	a0.o11	output, virtual	12	FAULT	OK	MAJOR	NO_ALARM
WCR East Oxigraf Ch2 Real	ODM:CR1:2:2:FAULT	a0.o12	output, virtual	11	FAULT	OK	MAJOR	NO_ALARM
WCR East Oxigraf Ch2 Latch	ODM:CR1:2:2:FAULT_LTH	a0.o13	output, virtual	10	FAULT	OK	MAJOR	NO_ALARM
WCR East Oxigraf Ch3 Real	ODM:CR1:2:3:FAULT	a0.o14	output, virtual	9	FAULT	OK	MAJOR	NO_ALARM
WCR East Oxigraf Ch3 Latch	ODM:CR1:2:3:FAULT_LTH	a0.o15	output, virtual	8	FAULT	OK	MAJOR	NO_ALARM
WCR West Sys OK Real	ODM:CR1:1:SYS_OK	a0.o16	output, virtual	23	FAULT	OK	MAJOR	NO_ALARM
WCR West Sys OK Latch	ODM:CR1:1:SYS_OK_LTH	a0.o17	output, virtual	22	FAULT	OK	MAJOR	NO_ALARM
WCR East Sys OK Real	ODM:CR1:2:SYS_OK	a0.o18	output, virtual	21	FAULT	OK	MAJOR	NO_ALARM
WCR East Sys OK Latch	ODM:CR1:2:SYS_OK_LTH	a0.o19	output, virtual	20	FAULT	OK	MAJOR	NO_ALARM
CBR West Oxigraf Ch0 Real	ODM:CR0:1:FAULT	a0.o20	output, virtual	19	FAULT	OK	MAJOR	NO_ALARM
CBR West Oxigraf Ch0 Latch	ODM:CR0:1:FAULT_LTH	a0.o21	output, virtual	18	FAULT	OK	MAJOR	NO_ALARM
CBR West Oxigraf Ch1 Real	ODM:CR0:1:1:FAULT	a0.o22	output, virtual	17	FAULT	OK	MAJOR	NO_ALARM
CBR West Oxigraf Ch1 Latch	ODM:CR0:1:1:FAULT_LTH	a0.o23	output, virtual	16	FAULT	OK	MAJOR	NO_ALARM
CBR West Oxigraf Ch2 Real	ODM:CR0:1:2:FAULT	a0.o64	output, virtual	95	FAULT	OK	MAJOR	NO_ALARM
CBR West Oxigraf Ch2 Latch	ODM:CR0:1:2:FAULT_LTH	a0.o65	output, virtual	94	FAULT	OK	MAJOR	NO_ALARM
CBR West Oxigraf Ch3 Real	ODM:CR0:1:3:FAULT	a0.o66	output, virtual	93	FAULT	OK	MAJOR	NO_ALARM
CBR West Oxigraf Ch3 Latch	ODM:CR0:1:3:FAULT_LTH	a0.o67	output, virtual	92	FAULT	OK	MAJOR	NO_ALARM
CBR East Oxigraf Ch0 Real	ODM:CR0:2:FAULT	a0.o68	output, virtual	91	FAULT	OK	MAJOR	NO_ALARM
CBR East Oxigraf Ch0 Latch	ODM:CR0:2:FAULT_LTH	a0.o69	output, virtual	90	FAULT	OK	MAJOR	NO_ALARM
CBR East Oxigraf Ch1 Real	ODM:CR0:2:1:FAULT	a0.o70	output, virtual	89	FAULT	OK	MAJOR	NO_ALARM
CBR East Oxigraf Ch1 Latch	ODM:CR0:2:1:FAULT_LTH	a0.o71	output, virtual	88	FAULT	OK	MAJOR	NO_ALARM
CBR East Oxigraf Ch2 Real	ODM:CR0:2:2:FAULT	a0.o72	output, virtual	103	FAULT	OK	MAJOR	NO_ALARM
CBR East Oxigraf Ch2 Latch	ODM:CR0:2:2:FAULT_LTH	a0.o73	output, virtual	102	FAULT	OK	MAJOR	NO_ALARM
CBR East Oxigraf Ch3 Real	ODM:CR0:2:3:FAULT	a0.o74	output, virtual	101	FAULT	OK	MAJOR	NO_ALARM
CBR East Oxigraf Ch3 Latch	ODM:CR0:2:3:FAULT_LTH	a0.o75	output, virtual	100	FAULT	OK	MAJOR	NO_ALARM
CBR West Sys OK Real	ODM:CR0:1:SYS_OK	a0.o76	output, virtual	99	FAULT	OK	MAJOR	NO_ALARM
CBR West Sys OK Latch	ODM:CR0:1:SYS_OK_LTH	a0.o77	output, virtual	98	FAULT	OK	MAJOR	NO_ALARM
CBR East Sys OK Real	ODM:CR0:2:SYS_OK	a0.o78	output, virtual	97	FAULT	OK	MAJOR	NO_ALARM
CBR East Sys OK Latch	ODM:CR0:2:SYS_OK_LTH	a0.o79	output, virtual	96	FAULT	OK	MAJOR	NO_ALARM
ECR West Oxigraf Ch0 Real	ODM:CR2:1:FAULT	a0.o80	output, virtual	111	FAULT	OK	MAJOR	NO_ALARM
ECR West Oxigraf Ch0 Latch	ODM:CR2:1:FAULT_LTH	a0.o81	output, virtual	110	FAULT	OK	MAJOR	NO_ALARM
ECR West Oxigraf Ch1 Real	ODM:CR2:1:1:FAULT	a0.o82	output, virtual	109	FAULT	OK	MAJOR	NO_ALARM
ECR West Oxigraf Ch1 Latch	ODM:CR2:1:1:FAULT_LTH	a0.o83	output, virtual	108	FAULT	OK	MAJOR	NO_ALARM
ECR West Oxigraf Ch2 Real	ODM:CR2:1:2:FAULT	a0.o84	output, virtual	107	FAULT	OK	MAJOR	NO_ALARM
ECR West Oxigraf Ch2 Latch	ODM:CR2:1:2:FAULT_LTH	a0.o85	output, virtual	106	FAULT	OK	MAJOR	NO_ALARM
ECR West Oxigraf Ch3 Real	ODM:CR2:1:3:FAULT	a0.o86	output, virtual	105	FAULT	OK	MAJOR	NO_ALARM
ECR West Oxigraf Ch3 Latch	ODM:CR2:1:3:FAULT_LTH	a0.o87	output, virtual	104	FAULT	OK	MAJOR	NO_ALARM

ECR East Oxigraf Ch0 Real	ODM:CR2:2:FAULT	a0.o88	output, virtual	119	FAULT	OK	MAJOR	NO_ALARM
ECR East Oxigraf Ch0 Latch	ODM:CR2:2:FAULT_LTH	a0.o89	output, virtual	118	FAULT	OK	MAJOR	NO_ALARM
ECR East Oxigraf Ch1 Real	ODM:CR2:2:1:FAULT	a0.o90	output, virtual	117	FAULT	OK	MAJOR	NO_ALARM
ECR East Oxigraf Ch1 Latch	ODM:CR2:2:1:FAULT_LTH	a0.o91	output, virtual	116	FAULT	OK	MAJOR	NO_ALARM
ECR East Oxigraf Ch2 Real	ODM:CR2:2:2:FAULT	a0.o92	output, virtual	115	FAULT	OK	MAJOR	NO_ALARM
ECR East Oxigraf Ch2 Latch	ODM:CR2:2:2:FAULT_LTH	a0.o93	output, virtual	114	FAULT	OK	MAJOR	NO_ALARM
ECR East Oxigraf Ch3 Real	ODM:CR2:2:3:FAULT	a0.o94	output, virtual	113	FAULT	OK	MAJOR	NO_ALARM
ECR East Oxigraf Ch3 Latch	ODM:CR2:2:3:FAULT_LTH	a0.o95	output, virtual	112	FAULT	OK	MAJOR	NO_ALARM
ECR West Sys OK Real	ODM:CR2:1:SYS_OK	a0.o96	output, virtual	127	FAULT	OK	MAJOR	NO_ALARM
ECR West Sys OK Latch	ODM:CR2:1:SYS_OK_LTH	a0.o97	output, virtual	126	FAULT	OK	MAJOR	NO_ALARM
ECR East Sys OK Real	ODM:CR2:2:SYS_OK	a0.o98	output, virtual	125	FAULT	OK	MAJOR	NO_ALARM
ECR East Sys OK Latch	ODM:CR2:2:SYS_OK_LTH	a0.o99	output, virtual	124	FAULT	OK	MAJOR	NO_ALARM
WCR Alarm Bypass	ODM:CR1:AL_BYPASSED	a0.o100	output, virtual	123	BYPASSED	NOT_BYPASSED	MINOR	NO_ALARM
WCR Alarm Mute	ODM:CR1:AL_MUTED	a0.o101	output, virtual	122	MUTED	NOT_MUTED	MINOR	NO_ALARM
WCR Strobe Out	ODM:CR1:STROBE	a0.o102	output, virtual	121	STROBE_ON	STROBE_OFF	NO_ALARM	NO_ALARM
WCR Horn Out	ODM:CR1:HORN	a0.o103	output, virtual	120	HORN_ON	HORN_OFF	NO_ALARM	NO_ALARM
WCR Fan Out	ODM:CR1:FAN	a0.o104	output, virtual	135	FAN_OFF	FAN_ON	NO_ALARM	NO_ALARM
WCR West Oxigraf Disable	ODM:CR1:1:OXGF_DISABLED	a0.o106	output, virtual	133	DISABLED	ENABLED	MINOR	NO_ALARM
WCR East Oxigraf Disable	ODM:CR1:2:OXGF_DISABLED	a0.o107	output, virtual	132	DISABLED	ENABLED	MINOR	NO_ALARM
CBR Alarm Bypass	ODM:CR0:AL_BYPASSED	a0.o108	output, virtual	132	BYPASSED	NOT_BYPASSED	MINOR	NO_ALARM
CBR Alarm Mute	ODM:CR0:AL_MUTED	a0.o109	output, virtual	131	MUTED	NOT_MUTED	MINOR	NO_ALARM
CBR Strobe Out	ODM:CR0:STROBE	a0.o110	output, virtual	130	STROBE_ON	STROBE_OFF	NO_ALARM	NO_ALARM
CBR Horn Out	ODM:CR0:HORN	a0.o111	output, virtual	129	HORN_ON	HORN_OFF	NO_ALARM	NO_ALARM
CBR Fan Out	ODM:CR0:FAN	a0.o112	output, virtual	143	FAN_OFF	FAN_ON	NO_ALARM	NO_ALARM
CBR West Oxigraf Disable	ODM:CR0:1:OXGF_DISABLE	a0.o114	output, virtual	141	DISABLED	ENABLED	MINOR	NO_ALARM
CBR East Oxigraf Disable	ODM:CR0:2:OXGF_DISABLE	a0.o115	output, virtual	140	DISABLED	ENABLED	MINOR	NO_ALARM
ECR Alarm Bypass	ODM:CR2:AL_BYPASS	a0.o116	output, virtual	139	BYPASSED	NOT_BYPASSED	MINOR	NO_ALARM
ECR Alarm Mute	ODM:CR2:AL_MUTE	a0.o117	output, virtual	138	MUTED	NOT_MUTED	MINOR	NO_ALARM
ECR Strobe Out	ODM:CR2:STROBE	a0.o118	output, virtual	137	STROBE_ON	STROBE_OFF	NO_ALARM	NO_ALARM
ECR Horn Out	ODM:CR2:HORN	a0.o119	output, virtual	136	HORN_ON	HORN_OFF	NO_ALARM	NO_ALARM
ECR Fan Out	ODM:CR2:FAN	a0.o120	output, virtual	151	FAN_OFF	FAN_ON	NO_ALARM	NO_ALARM
ECR West Oxigraf Disable	ODM:CR2:1:OXGF_DISABLE	a0.o122	output, virtual	149	DISABLED	ENABLED	MINOR	NO_ALARM
ECR East Oxigraf Disable	ODM:CR2:2:OXGF_DISABLE	a0.o123	output, virtual	148	DISABLED	ENABLED	MINOR	NO_ALARM
Yellow Alarm	ODM:CR00:YELLOW_ALARM	a0.o124	output, virtual	147	YELLOW_ALARM	NO_YELLOW_ALARM	MINOR	NO_ALARM
Red Alarm	ODM:CR00:RED_ALARM	a0.o125	output, virtual	146	RED_ALARM	NO_RED_ALARM	MAJOR	NO_ALARM