

sensor id	sensor name	parameter name	description	type	uint	data type (float = max		min	resolution	accuracy
0xFF	Coresense info	Firmware HW/SV	pre-determined	raw	n/a	int16	fixed_value	fixed_value	fixed_value	fixed_value
0xFF	Coresense info	Build time	pre-determined	raw	n/a	int32	fixed_value	fixed_value	fixed_value	fixed_value
0xFF	Coresense info	Build git	pre-determined	raw	n/a	int16	fixed_value	fixed_value	fixed_value	fixed_value
0xFF	Coresense info	Firmware HW ve	pre-determined	raw	n/a	float	fixed_value	fixed_value	fixed_value	fixed_value
0xFF	Coresense info	Firmware SW ve	pre-determined	hrf	n/a	float	fixed_value	fixed_value	fixed_value	fixed_value
0xFF	Coresense info	Build time	pre-determined	hrf	n/a	epoch	fixed_value	fixed_value	fixed_value	fixed_value
0xFF	Coresense info	Build git	pre-determined	hrf	n/a	hex*2	fixed_value	fixed_value	fixed_value	fixed_value
0x00	Metsense MAC	Mac address	pre-determined	raw	n/a	char*6	fixed_value	fixed_value	fixed_value	fixed_value
0x00	Metsense MAC	Mac address	pre-determined	hrf	n/a	hex*6	fixed_value	fixed_value	fixed_value	fixed_value
0x01	TMP112	temperature	register	raw	counts	int16	65535	0	1	1
0x01	TMP112	temperature	converted	hrf	degree_c	float	125	-40	1	1
0x02	HTU21D	temperature	register	raw	counts	int24	16777216	0	1	1
0x02	HTU21D	humidity	register	raw	counts	int24	16777216	0	1	1
0x02	HTU21D	temperature	converted	hrf	degree_c	float	125	-40	0.01	0.3
0x02	HTU21D	humidity	converted	hrf	%RH	float	100	0	0.04	2
0x03	HIH4030	humidity	voltage	raw	counts	int16	1023	0	1	1
0x03	HIH4030	humidity	converted	hrf	%RH	float	100	0	0.5	3.5
0x04	BMP180	temperature	register	raw	counts	int16	65535	0	1	1
0x04	BMP180	pressure	register	raw	counts	int16	65535	0	1	1
0x04	BMP180	temperature	converted	hrf	degree_c	float	85	-40	0.01	2
0x04	BMP180	pressure	converted	hrf	hPa	float	10000	0	0.1	0.5
0x05	PR103J2	temperature	voltage	raw	counts	int24	1023	0	1	1
0x05	PR103J2	temperature	converted	hrf	degree_c	float	80	-55	0.01	0.05
0x06	TSL250RD	visible light	voltage	raw	counts	int16	1023	0	1	1
0x06	TSL250RD	visible light	converted	hrf	uw/cm2	float	210	0.2	2	7.5
0x07	MMA8452Q	acceleration	register	raw	counts	int16	65535	0	1	1
0x07	MMA8452Q	acceleration	register	raw	counts	int16	65535	0	1	1
0x07	MMA8452Q	acceleration	register	raw	counts	int16	65535	0	1	1
0x07	MMA8452Q	acceleration	converted	hrf	gx	float	8	-8	0.008	0.02
0x07	MMA8452Q	acceleration	converted	hrf	gy	float	8	-8	0.008	0.02
0x07	MMA8452Q	acceleration	converted	hrf	gz	float	13.9	0	0.014	0.035
0x08	SPV1840LR5H-E	sound level	voltage	raw	counts	int16*63	1023	0	1	1
0x08	SPV1840LR5H-E	sound level	converted	hrf	dBm	float	121	54	2	8
0x09	TSYS01	temperature	register	raw	counts	int24	16777216	0	1	1
0x09	TSYS01	temperature	converted	hrf	degree_c	float	125	-40	0.01	0.5
0x0A	HMC5883L	magnetic field	register	raw	counts	int16	65535	0	1	1
0x0A	HMC5883L	magnetic field	register	raw	counts	int16	65535	0	1	1
0x0A	HMC5883L	magnetic field	register	raw	counts	int16	65535	0	1	1
0x0A	HMC5883L	magnetic field	converted	hrf	Gx	float	8	-8	0.002	0.435
0x0A	HMC5883L	magnetic field	converted	hrf	Gy	float	8	-8	0.002	0.435
0x0A	HMC5883L	magnetic field	converted	hrf	Gz	float	8	-8	0.002	0.435
0x0B	HIH6130	temperature	register	raw	counts	int16	65535	0	1	1
0x0B	HIH6130	humidity	register	raw	counts	int16	65535	0	1	1
0x0B	HIH6130	temperature	converted	hrf	degree_c	float	85	-25	0.025	1
0x0B	HIH6130	humidity	converted	hrf	%RH	float	100	0	0.04	4
0x0C	APDS-9006-020	ambient light	voltage	raw	counts	int24	16777216	0	1	1
0x0C	APDS-9006-020	ambient light	converted	hrf	lux	float	1000	0	0.008	1
0x0D	TSL260	light	voltage	raw	counts	int24	16777216	0	1	1
0x0D	TSL260	light	converted	hrf	uw/cm2	float	61	0.2	0.1	4
0x0E	TSL250	light	voltage	raw	counts	int24	16777216	0	1	1
0x0E	TSL250	light	converted	hrf	uw/cm2	float	210	0.2	0.1	4
0x0F	MLX75305	ambient light	voltage	raw	counts	int24	16777216	0	1	1
0x0F	MLX75305	ambient light	converted	hrf	uw/cm2	float	60	0	0.86	0.86
0x10	ML8511	uv	voltage	raw	counts	int24	16777216	0	1	1
0x10	ML8511	uv	converted	hrf	mw/cm2	float	15	0	1	1
0x13	TMP421	temperature	register	raw	counts	int16	65535	0	1	1
0x13	TMP421	temperature	converted	hrf	degree_c	float	127	-55	0.25	2.5
0x15	IRR	gas	ampare	raw	pA	int24	16777216	0	1	1
0x15	IRR	gas	converted	hrf	ppm	float	20	0	0.5	0.5
0x16	Chem Config	configuration	pre-determined	raw	n/a	char*1514	fixed_value	fixed_value	fixed_value	fixed_value
0x16	Chem Config	configuration	pre-determined	hrf	n/a	hex*1514	fixed_value	fixed_value	fixed_value	fixed_value
0x17	NO2	gas	ampare	raw	pA	int24	16777216	0	1	1
0x17	NO2	gas	converted	hrf	ppm	float	20	0	0.5	0.5
0x18	O3	gas	ampare	raw	pA	int24	16777216	0	1	1
0x18	O3	gas	converted	hrf	ppm	float	20	0	0.32	0.32
0x19	H2S	gas	ampare	raw	pA	int24	16777216	0	1	1
0x19	H2S	gas	converted	hrf	ppm	float	50	0	2.5	2.5
0x1A	IAQ	gas	ampare	raw	pA	int24	16777216	0	1	1
0x1A	IAQ	gas	converted	hrf	ppm	float	100	0	0.12	0.12
0x1B	CO	gas	ampare	raw	pA	int24	16777216	0	1	1
0x1B	CO	gas	converted	hrf	ppm	float	1000	0	0.0475	0.0475
0x1C	SO2	gas	ampare	raw	pA	int24	16777216	0	1	1
0x1C	SO2	gas	converted	hrf	ppm	float	20	0	0.25	0.25
0x1D	SHT25	temperature	pre-calculated	raw	100th of degree c	int16	65535	0	1	1
0x1D	SHT25	humidity	pre-calculated	raw	100th of %RH	int16	65535	0	1	1
0x1D	SHT25	temperature	scaled	hrf	degree_c	float	125	-40	0.04	0.2
0x1D	SHT25	humidity	scaled	hrf	%RH	float	100	0	0.7	1.8
0x1E	LPS25H	temperature	pre-calculated	raw	100th of degree c	int16	65535	0	1	1
0x1E	LPS25H	pressure	pre-calculated	raw	100th of hPa	int32	4294967296	0	1	1
0x1E	LPS25H	temperature	scaled	hrf	degree_c	float	1260	260	2	2
0x1E	LPS25H	pressure	scaled	hrf	hPa	float	-30	105	0.5	1
0x1F	Si1445	uv	ADC-count	raw	counts	int16	65535	0	1	1
0x1F	Si1445	visible light	ADC-count	raw	counts	int16	65535	0	1	1
0x1F	Si1445	proximity	ADC-count	raw	counts	int16	65535	0	1	1

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0x1F	Si1445	uv	converted	hrf	TBN	float	TBN	TBN	TBN	TBN
0x1F	Si1445	visible light	converted	hrf	TBN	float	TBN	TBN	TBN	TBN
0x1F	Si1445	proximity	converted	hrf	TBN	float	TBN	TBN	TBN	TBN
0x20	Chemsense MAC	Mac address	pre-determined	raw	n/a	char*6	65535	0	1	1
0x20	Chemsense MAC	Mac address	pre-determined	hrf	n/a	hex*6	n/a	n/a	n/a	n/a
0x21	at0	temperature	pre-calculated	raw	100th of degree c	int16	65535	0	1	1
0x21	at0	temperature	pre-calculated	hrf	degree_c	float	TBN	TBN	TBN	TBN
0x22	at1	temperature	pre-calculated	raw	100th of degree c	int16	65535	0	1	1
0x22	at1	temperature	pre-calculated	hrf	degree_c	float	TBN	TBN	TBN	TBN
0x23	at2	temperature	pre-calculated	raw	100th of degree c	int16	65535	0	1	1
0x23	at2	temperature	pre-calculated	hrf	degree_c	float	TBN	TBN	TBN	TBN
0x24	at3	temperature	pre-calculated	raw	100th of degree c	int16	65535	0	1	1
0x24	at3	temperature	pre-calculated	hrf	degree_c	float	TBN	TBN	TBN	TBN
0x25	lt0	temperature	pre-calculated	raw	100th of degree c	int16	65535	0	1	1
0x25	lt0	temperature	pre-calculated	hrf	degree_c	float	TBN	TBN	TBN	TBN
0x26	BMI160	acceleration	register	raw	counts	int16	65535	0	1	1
0x26	BMI160	acceleration	register	raw	counts	int16	65535	0	1	1
0x26	BMI160	acceleration	register	raw	counts	int16	65535	0	1	1
0x26	BMI160	acceleration	register	raw	counts	int24	16777216	0	1	1
0x26	BMI160	acceleration	converted	hrf	g	float	TBN	TBN	TBN	TBN
0x26	BMI160	acceleration	converted	hrf	g	float	TBN	TBN	TBN	TBN
0x26	BMI160	acceleration	converted	hrf	g	float	TBN	TBN	TBN	TBN
0x26	BMI160	acceleration	converted	hrf	g	float	TBN	TBN	TBN	TBN
0x27	BMI160	gyro	register	raw	counts	int16	65535	0	1	1
0x27	BMI160	gyro	register	raw	counts	int16	65535	0	1	1
0x27	BMI160	gyro	register	raw	counts	int16	65535	0	1	1
0x27	BMI160	gyro	register	raw	counts	int24	16777216	0	1	1
0x27	BMI160	gyro	converted	raw	degree/sec	float	TBN	TBN	TBN	TBN
0x27	BMI160	gyro	converted	raw	degree/sec	float	TBN	TBN	TBN	TBN
0x27	BMI160	gyro	converted	raw	degree/sec	float	TBN	TBN	TBN	TBN
0x27	BMI160	gyro	converted	raw	degree/sec	float	TBN	TBN	TBN	TBN
0x28	Alpha sensor	bin count	count	raw	counts	int16*16	65535	TBN	TBN	TBN
0x28	Alpha sensor	average time	register	raw	counts	int8*4	256	TBN	TBN	TBN
0x28	Alpha sensor	sample flow rate	pre-determined	raw	n/a	int32	4294967296	TBN	TBN	TBN
0x28	Alpha sensor	temp/pressure (a	register	raw	degree_c/hPa (a	int32	4294967296	TBN	TBN	TBN
0x28	Alpha sensor	sampling period	pre-determined	raw	/s	int32	4294967296	TBN	TBN	TBN
0x28	Alpha sensor	checksum	pre-calculated	raw	n/a	int16	n/a	n/a	n/a	n/a
0x28	Alpha sensor	PM 1	register	raw	counts	int32	4294967296	TBN	TBN	TBN
0x28	Alpha sensor	PM 2.5	register	raw	counts	int32	4294967296	TBN	TBN	TBN
0x28	Alpha sensor	PM 10	register	raw	counts	int32	4294967296	TBN	TBN	TBN
0x28	Alpha sensor	bin count	converted	hrf	n/a	int16*16	TBN	TBN	TBN	TBN
0x28	Alpha sensor	average time	converted	hrf	us	int8*4	TBN	TBN	TBN	TBN
0x28	Alpha sensor	sample flow rate	converted	hrf	ml/s	float	TBN	TBN	TBN	TBN
0x28	Alpha sensor	temp/pressure (a	converted	hrf	degree_c/hPa (a	float	TBN	TBN	TBN	TBN
0x28	Alpha sensor	sampling period	converted	hrf	/s	int32	TBN	TBN	TBN	TBN
0x28	Alpha sensor	checksum	converted	hrf	n/a	int16	n/a	n/a	n/a	n/a
0x28	Alpha sensor	PM 1	converted	hrf	ug/m3	float	TBN	TBN	TBN	TBN
0x28	Alpha sensor	PM 2.5	converted	hrf	ug/m3	float	TBN	TBN	TBN	TBN
0x28	Alpha sensor	PM 10	converted	hrf	ug/m3	float	TBN	TBN	TBN	TBN
0x29	Alpha sensor	Serial	pre-determined	raw	n/a	char*20	fixed_value	fixed_value	fixed_value	fixed_value
0x29	Alpha sensor	Serial	pre-determined	hrf	n/a	hex*20	fixed_value	fixed_value	fixed_value	fixed_value
0x2A	Chemsense	All Chemsense	pre-calculated	raw	various	various	various	various	various	various
0x2A	Chemsense	All Chemsense	converted	hrf	various	various	various	various	various	various
0x2B	Alpha sensor	Status	bool	raw	n/a	int8*4	1	0	1	1
0x2B	Alpha sensor	Status	converted	hrf	n/a	int8*4	1	0	1	1
0x30	Alpha sensor	Firmware	pre-determined	raw	n/a	int8*2	fixed_value	fixed_value	fixed_value	fixed_value
0x30	Alpha sensor	Firmware	converted	hrf	n/a	int8*2	fixed_value	fixed_value	fixed_value	fixed_value
0x31	Alpha sensor	bin boundaries	pre-determined	raw	n/a	int16*15	fixed_value	fixed_value	fixed_value	fixed_value
0x31	Alpha sensor	bin particle volum	pre-determined	raw	n/a	int32*16	fixed_value	fixed_value	fixed_value	fixed_value
0x31	Alpha sensor	bin particle denci	pre-determined	raw	/cm3	int32*16	fixed_value	fixed_value	fixed_value	fixed_value
0x31	Alpha sensor	bin sample volum	pre-determined	raw	n/a	int32*16	fixed_value	fixed_value	fixed_value	fixed_value
0x31	Alpha sensor	gain scaling coei	pre-determined	raw	n/a	int32	fixed_value	fixed_value	fixed_value	fixed_value
0x31	Alpha sensor	sampling flow rat	pre-determined	raw	ml/s	int32	fixed_value	fixed_value	fixed_value	fixed_value
0x31	Alpha sensor	laser DAC	pre-determined	raw	n/a	int8	fixed_value	fixed_value	fixed_value	fixed_value
0x31	Alpha sensor	fan DAC	pre-determined	raw	n/a	int8	fixed_value	fixed_value	fixed_value	fixed_value
0x31	Alpha sensor	conversion factor	pre-determined	raw	n/a	int8	fixed_value	fixed_value	fixed_value	fixed_value
0x31	Alpha sensor	spare bytes	spare	raw	n/a	int8*21	fixed_value	fixed_value	fixed_value	fixed_value
0x31	Alpha sensor	bin boundaries	pre-determined	hrf	n/a	float*15	fixed_value	fixed_value	fixed_value	fixed_value
0x31	Alpha sensor	bin particle volum	pre-determined	hrf	n/a	float*16	fixed_value	fixed_value	fixed_value	fixed_value
0x31	Alpha sensor	bin particle denci	pre-determined	hrf	n/a	float*16	fixed_value	fixed_value	fixed_value	fixed_value
0x31	Alpha sensor	bin sample volum	pre-determined	hrf	n/a	float*16	fixed_value	fixed_value	fixed_value	fixed_value
0x31	Alpha sensor	gain scaling coei	pre-determined	hrf	n/a	float	fixed_value	fixed_value	fixed_value	fixed_value
0x31	Alpha sensor	sampling flow rat	pre-determined	hrf	ml/s	float	fixed_value	fixed_value	fixed_value	fixed_value
0x31	Alpha sensor	laser DAC	pre-determined	hrf	n/a	int8	fixed_value	fixed_value	fixed_value	fixed_value
0x31	Alpha sensor	fan DAC	pre-determined	hrf	n/a	int8	fixed_value	fixed_value	fixed_value	fixed_value
0x31	Alpha sensor	conversion factor	pre-determined	hrf	n/a	int8	fixed_value	fixed_value	fixed_value	fixed_value
0x31	Alpha sensor	spare bytes	spare	n/a	n/a	int8*21	fixed_value	fixed_value	fixed_value	fixed_value
0x2C	Rain gauge	precipitation	count	raw	counts	int16	65535	0	1	1
0x2C	Rain gauge	precipitation	converted	hrf	mm	float	16645.89	0	0.254	0.254
0x2D	Decagon	volumetric water	register	raw	n/a	int16	65535	0	1	1
0x2D	Decagon	electric conductiv	register	raw	dS/m	int16	65535	0	1	1
0x2D	Decagon	temperature	register	raw	degree_c	int16	65535	0	1	1
0x2D	Decagon	volumetric water	converted	hrf	n/a	float	1	80	0.75	1
0x2D	Decagon	electric conductiv	converted	hrf	dS/m	float	23	0	0.05	0.7

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0x2D	Decagon	temperature	converted	hrf	degree_c	float	60	-40	0.1	1
0x2E	Water Level (Rec	water level	TBN	TBN	TBN	TBN	TBN	TBN	TBN	TBN
0x2F	Water Level (Blai	water level	TBN	TBN	TBN	TBN	TBN	TBN	TBN	TBN
0x35	PMS3003	particle	TBN	TBN	TBN	TBN	TBN	TBN	TBN	TBN
0x36	PMS7003	particle	TBN	TBN	TBN	TBN	TBN	TBN	TBN	TBN
0x37	YL-69		TBN	TBN	TBN	TBN	TBN	TBN	TBN	TBN
0x38	YHDC SCT-013-030		TBN	TBN	TBN	TBN	TBN	TBN	TBN	TBN
0x39	CR3110-3000	current	TBN	raw	TBN	TBN	TBN	TBN	TBN	TBN
0x11	Bus reading	vareis	vareis	raw	vareis	vareis	vareis	vareis	vareis	vareis
0x11	Bus reading	vareis	vareis	hrf	vareis	vareis	vareis	vareis	vareis	vareis
0x12	List of disabled s	id	pre-determined	raw	n/a	n/a	n/a	n/a	n/a	n/a
0x12	List of disabled s	id	pre-determined	hrf	n/a	n/a	n/a	n/a	n/a	n/a