

## HGM300 / JOHNSON METASYS N2 POINT MAP

TYPE	NUM	DESCRIPTION	COS?	COMMENTS
AI	1	Zone 1 PPM value with Leak Alarm	Yes	Set 1-65535 PPM
AI	2	Zone 1 PPM value with Spill Alarm	Yes	Set higher than Leak Alarm
AI	3	Zone 1 PPM value with Evacuate Alarm	Yes	Set higher than Spill Alarm
AI	4	Zone 2 PPM value with Leak Alarm	Yes	Set 1-65535 PPM
AI	5	Zone 2 PPM value with Spill Alarm	Yes	Set higher than Leak Alarm
AI	6	Zone 2 PPM value with Evacuate Alarm	Yes	Set higher than Spill Alarm
AI	7	Zone 3 PPM value with Leak Alarm	Yes	Set 1-65535 PPM
AI	8	Zone 3 PPM value with Spill Alarm	Yes	Set higher than Leak Alarm
AI	9	Zone 3 PPM value with Evacuate Alarm	Yes	Set higher than Spill Alarm
AI	10	Zone 4 PPM value with Leak Alarm	Yes	Set 1-65535 PPM
AI	11	Zone 4 PPM value with Spill Alarm	Yes	Set higher than Leak Alarm
AI	12	Zone 4 PPM value with Evacuate Alarm	Yes	Set higher than Spill Alarm
AI	13	Zone 5 PPM value with Leak Alarm	Yes	Set 1-65535 PPM
AI	14	Zone 5 PPM value with Spill Alarm	Yes	Set higher than Leak Alarm
AI	15	Zone 5 PPM value with Evacuate Alarm	Yes	Set higher than Spill Alarm
AI	16	Zone 6 PPM value with Leak Alarm	Yes	Set 1-65535 PPM
AI	17	Zone 6 PPM value with Spill Alarm	Yes	Set higher than Leak Alarm
AI	18	Zone 6 PPM value with Evacuate Alarm	Yes	Set higher than Spill Alarm
AI	19	Zone 7 PPM value with Leak Alarm	Yes	Set 1-65535 PPM
AI	20	Zone 7 PPM value with Spill Alarm	Yes	Set higher than Leak Alarm
AI	21	Zone 7 PPM value with Evacuate Alarm	Yes	Set higher than Spill Alarm
AI	22	Zone 8 PPM value with Leak Alarm	Yes	Set 1-65535 PPM
AI	23	Zone 8 PPM value with Spill Alarm	Yes	Set higher than Leak Alarm
AI	24	Zone 8 PPM value with Evacuate Alarm	Yes	Set higher than Spill Alarm
AI	25	Zone 9 PPM value with Leak Alarm	Yes	Set 1-65535 PPM
AI	26	Zone 9 PPM value with Spill Alarm	Yes	Set higher than Leak Alarm
AI	27	Zone 9 PPM value with Evacuate Alarm	Yes	Set higher than Spill Alarm
AI	28	Zone 10 PPM value with Leak Alarm	Yes	Set 1-65535 PPM
AI	29	Zone 10 PPM value with Spill Alarm	Yes	Set higher than Leak Alarm
AI	30	Zone 10 PPM value with Evacuate Alarm	Yes	Set higher than Spill Alarm
AI	31	Zone 11 PPM value with Leak Alarm	Yes	Set 1-65535 PPM
AI	32	Zone 11 PPM value with Spill Alarm	Yes	Set higher than Leak Alarm
AI	33	Zone 11 PPM value with Evacuate Alarm	Yes	Set higher than Spill Alarm

## HGM300 / JOHNSON METASYS N2 POINT MAP (Cont.)

TYPE	NUM	DESCRIPTION	COS?	COMMENTS
AI	34	Zone 12 PPM value with Leak Alarm	Yes	Set 1-65535 PPM
AI	35	Zone 12 PPM value with Spill Alarm	Yes	Set higher than Leak Alarm
AI	36	Zone 12 PPM value with Evacuate Alarm	Yes	Set higher than Spill Alarm
AI	37	Zone 13 PPM value with Leak Alarm	Yes	Set 1-65535 PPM
AI	38	Zone 13 PPM value with Spill Alarm	Yes	Set higher than Leak Alarm
AI	39	Zone 13 PPM value with Evacuate Alarm	Yes	Set higher than Spill Alarm
AI	40	Zone 14 PPM value with Leak Alarm	Yes	Set 1-65535 PPM
AI	41	Zone 14 PPM value with Spill Alarm	Yes	Set higher than Leak Alarm
AI	42	Zone 14 PPM value with Evacuate Alarm	Yes	Set higher than Spill Alarm
AI	43	Zone 15 PPM value with Leak Alarm	Yes	Set 1-65535 PPM
AI	44	Zone 15 PPM value with Spill Alarm	Yes	Set higher than Leak Alarm
AI	45	Zone 15 PPM value with Evacuate Alarm	Yes	Set higher than Spill Alarm
AI	46	Zone 16 PPM value with Leak Alarm	Yes	Set 1-65535 PPM
AI	47	Zone 16 PPM value with Spill Alarm	Yes	Set higher than Leak Alarm
AI	48	Zone 16 PPM value with Evacuate Alarm	Yes	Set higher than Spill Alarm
BI	1	Zone 1 Flow Fault	Yes	0=OK, 1=No Flow
BI	2	Zone 2 Flow Fault	Yes	0=OK, 1=No Flow
BI	3	Zone 3 Flow Fault	Yes	0=OK, 1=No Flow
BI	4	Zone 4 Flow Fault	Yes	0=OK, 1=No Flow
BI	5	Zone 5 Flow Fault	Yes	0=OK, 1=No Flow
BI	6	Zone 6 Flow Fault	Yes	0=OK, 1=No Flow
BI	7	Zone 7 Flow Fault	Yes	0=OK, 1=No Flow
BI	8	Zone 8 Flow Fault	Yes	0=OK, 1=No Flow
BI	9	Zone 9 Flow Fault	Yes	0=OK, 1=No Flow
BI	10	Zone 10 Flow Fault	Yes	0=OK, 1=No Flow
BI	11	Zone 11 Flow Fault	Yes	0=OK, 1=No Flow
BI	12	Zone 12 Flow Fault	Yes	0=OK, 1=No Flow
BI	13	Zone 13 Flow Fault	Yes	0=OK, 1=No Flow
BI	14	Zone 14 Flow Fault	Yes	0=OK, 1=No Flow
BI	15	Zone 15 Flow Fault	Yes	0=OK, 1=No Flow
BI	16	Zone 16 Flow Fault	Yes	0=OK, 1=No Flow

## HGM300 / JOHNSON METASYS N2 POINT MAP (Cont.)

TYPE	NUM	DESCRIPTION	COS?	COMMENTS
BI	17	Fault: Clipping (A/D out of range)	Yes	0=OK, 1=Critical fault
BI	18	Fault: Zero voltage outside factory limits	Yes	0=OK, 1=Critical fault
BI	19	Fault: No Flow on any zone	Yes	0=OK, 1=Critical fault
BI	20	Fault: No Flow on purge	Yes	0=OK, 1=Critical fault
BI	21	Fault: No Flow on a particular zone	Yes	0=OK, 1=Critical fault
BI	22	Fault: IR Source clock trigger missing	Yes	0=OK, 1=Critical fault
BI	23	Fault: No zones enabled	Yes	0=OK, 1=Non-Critical fault
BI	24	Fault: Open current loop output	Yes	0=OK, 1=Non-Critical fault
BI	25	Fault: Pressure out of normal range	Yes	0=OK, 1=Non-Critical fault
BI	26	Fault: Bench temperature out of normal range	Yes	0=OK, 1=Non-Critical fault
BI	27	Fault: Box temperature out of normal range	Yes	0=OK, 1=Non-Critical fault
ADI	1	Zone 1 refrigerant type	No	See Refrigerant List notes
ADI	2	Zone 2 refrigerant type	No	See Refrigerant List notes
ADI	3	Zone 3 refrigerant type	No	See Refrigerant List notes
ADI	4	Zone 4 refrigerant type	No	See Refrigerant List notes
ADI	5	Zone 5 refrigerant type	No	See Refrigerant List notes
ADI	6	Zone 6 refrigerant type	No	See Refrigerant List notes
ADI	7	Zone 7 refrigerant type	No	See Refrigerant List notes
ADI	8	Zone 8 refrigerant type	No	See Refrigerant List notes
ADI	9	Zone 9 refrigerant type	No	See Refrigerant List notes
ADI	10	Zone 10 refrigerant type	No	See Refrigerant List notes
ADI	11	Zone 11 refrigerant type	No	See Refrigerant List notes
ADI	12	Zone 12 refrigerant type	No	See Refrigerant List notes
ADI	13	Zone 13 refrigerant type	No	See Refrigerant List notes
ADI	14	Zone 14 refrigerant type	No	See Refrigerant List notes
ADI	15	Zone 15 refrigerant type	No	See Refrigerant List notes
ADI	16	Zone 16 refrigerant type	No	See Refrigerant List notes

Refrigerant List (contact Bacharach for additions)

0 = R11, 1 = R12, 2 = R22, 3 = R23, 4 = R113, 5 = R114, 6 = R123, 7 = R124,  
 8 = R134a, 9 = R401a, 10 = R402a, 11 = R402b, 12 = R404a, 13 = R407a,  
 14 = R407c, 15 = R409a, 16 = R410a, 17 = R500, 18 = R502, 19 = R503,  
 20 = R507, 21 = R508b, 22 = H1301, 23 = R408a.

## HGM300 / JOHNSON METASYS N2 POINT MAP (Cont.)

TYPE	NUM	DESCRIPTION	COS?	COMMENTS
ADI	17	Number of zones installed	No	4-16 zones in groups of 4
ADI	18	Number of zones in alarm	No	
ADI	19	HGM300 Operating Mode (Values 0,1,2,3)	No	0=Normal, 1=Zone Hold, 2=Diagnostic, 3=Service
ADI	20	HGM300 Current State (Values 0,1,2,3,4)	No	0=Idle, 1=Sampling, 2=Zeroing, 3=Warm Up, 4=Pressure check
ADI	21	HGM Params Unavailable/Unreliable Reason	No	0=Params are reliable 1=HGM says illegal command 2=HGM says illegal data address 3=Haven't started HGM comm yet 4=HGM is warming up 5=Zone flow fault 6=HGM is busy right now 7=Critical fault (except zone flow) 8=No response from HGM 9=CRC comm errors with HGM 10=poll/response sync problem between adapter and HGM