

Measurement and control system KJM MANDÍK
Climatix

KNX S-mode table

for version software 33.01 and higher

3/2024

MANDÍK®



ATEX II 2G IIB T4

KJM MANDÍK - KNX S-mode table for version software 33.01 and higher

Data point	Address	Type	Read/ Write
Alarm acknowledge	x/y/z	1.016	W
Desired regime (0-Schedulers, 1-Off, 2-Protect, 3-Reduced, 4-Comfort)	x/y/z	6.020	R/W
Actual regime (0-Off, 1-Standby, 2-Reduced, 3-Comfort, 4-Freecooling, 5-FrostProtect)	x/y/z	6.020	R
Auxiliary mode (0-none, 4-LowTemperatureSupplied, 5-Ventilate, 6-ProtectWaterHeating, 10-Boiler, 11-Start, 12 - BlockFan, 13-SuperiorBlock, 14-Test)	x/y/z	6.020	R
Regulation temperature - state (0-Off, 1-Air, 2-Heat, 3-Cool, 4-Off, 5-TempSupply)	x/y/z	6.020	R
Actual desired temperature [°C]	x/y/z	9.001	R
Desired temperature - regime Comfort - sommer [°C]	x/y/z	9.001	R/W
Desired temperature - regime Comfort - winter [°C]	x/y/z	9.001	R/W
Desired temperature - regime Reduced - sommer [°C]	x/y/z	9.001	R/W
Desired temperature - regime Reduced - winter [°C]	x/y/z	9.001	R/W
Desired temperature - regime FrostProtection [°C]	x/y/z	9.001	R/W
Desired temperature - regime Freecooling [°C]	x/y/z	9.001	R/W
Regulation humidity - state (0-Null, 1-Off, 2-OK, 3-Low, 4-High, 5-Outdoor)	x/y/z	6.020	R
Actual desired humidity [%]	x/y/z	9.007	R
Desired humidity - regime Comfort [%]	x/y/z	9.007	R/W
Desired humidity - regime Reduced [%]	x/y/z	9.007	R/W
Desired humidity - limit on [%]	x/y/z	9.007	R/W
Desired humidity - limit off [%]	x/y/z	9.007	R/W
Regulation air quality - state (0-OK, 1-Bad)	x/y/z	6.020	R
Actual air quality [ppm]	x/y/z	9.008	R
Desired air quality [ppm]	x/y/z	9.008	R/W
High limit air quality [ppm]	x/y/z	9.008	R/W
Desired fan supply constant speed - regime Comfort - summer [%]	x/y/z	5.004	R/W
Desired fan supply constant speed - regime Comfort - winter [%]	x/y/z	5.004	R/W
Desired fan supply constant speed - regime Reduced - summer [%]	x/y/z	5.004	R/W
Desired fan supply constant speed - regime Reduced - winter [%]	x/y/z	5.004	R/W
Desired fan supply constant press - regime Comfort [Pa]	x/y/z	9.006	R/W
Desired fan supply constant press - regime Reduced [Pa]	x/y/z	9.006	R/W
Desired fan supply constant flow- regime Comfort [m3/h]	x/y/z	9.009	R/W
Desired fan supply constant flow - regime Reduced [m3/h]	x/y/z	9.009	R/W
Desired fan exhaust constant speed - regime Comfort - summer [%]	x/y/z	5.004	R/W
Desired fan exhaust constant speed - regime Comfort - winter [%]	x/y/z	5.004	R/W
Desired fan exhaust constant speed - regime Reduced - summer [%]	x/y/z	5.004	R/W
Desired fan exhaust constant speed - regime Reduced - winter [%]	x/y/z	5.004	R/W
Desired fan exhaust constant press - regime Comfort [Pa]	x/y/z	9.006	R/W
Desired fan exhaust constant press - regime Reduced [Pa]	x/y/z	9.006	R/W
Desired fan exhaust constant flow- regime Comfort [m3/h]	x/y/z	9.009	R/W
Desired fan exhaust constant flow - regime Reduced [m3/h]	x/y/z	9.009	R/W
Temperature after recovery - extract air [°C]	x/y/z	9.001	R
Temperature after recovery - extract air - alarm	x/y/z	1.005	R
Supply temperature [°C]	x/y/z	9.001	R
Supply temperature - alarm	x/y/z	1.005	R
Preheat temperature [°C]	x/y/z	9.001	R
Preheat temperature - alarm	x/y/z	1.005	R

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Data point	Address	Type	Read/ Write
Flue temperature [°C]	x/y/z	9.001	R
Flue temperature - alarm	x/y/z	1.005	R
Extract temperature [°C]	x/y/z	9.001	R
Extract temperature - alarm	x/y/z	1.005	R
Exhaust temperature [°C]	x/y/z	9.001	R
Exhaust temperature - alarm	x/y/z	1.005	R
Outdoor temperature [°C]	x/y/z	9.001	R
Outdoor temperature - alarm	x/y/z	1.005	R
Return water temperature - water heater [°C]	x/y/z	9.001	R
Return water temperature - water heater - alarm	x/y/z	1.005	R
Supply water temperature - water heater [°C]	x/y/z	9.001	R
Supply water temperature - water heater - alarm	x/y/z	1.005	R
Return water temperature - water cooler [°C]	x/y/z	9.001	R
Return water temperature - water cooler - alarm	x/y/z	1.005	R
Supply water temperature - water cooler [°C]	x/y/z	9.001	R
Supply water temperature - water cooler - alarm	x/y/z	1.005	R
Room temperature [°C]	x/y/z	9.001	R
Room temperature - alarm	x/y/z	1.005	R
Room temperature 2 [°C]	x/y/z	9.001	R
Room temperature 2 - alarm	x/y/z	1.005	R
Temperature before recovery - supply air [°C]	x/y/z	9.001	R
Temperature before recovery - supply air - alarm	x/y/z	1.005	R
Temperature after recovery - supply air [°C]	x/y/z	9.001	R
Temperature after recovery - supply air - alarm	x/y/z	1.005	R
Temperature room unit POL822 [°C]	x/y/z	9.001	R
Temperature room unit POL822 - alarm	x/y/z	1.005	R
Outdoor humidity [%]	x/y/z	9.007	R
Outdoor humidity - alarm	x/y/z	1.005	R
Room humidity [%]	x/y/z	9.007	R
Room humidity - alarm	x/y/z	1.005	R
Supply air humidity [%]	x/y/z	9.007	R
Supply air humidity - alarm	x/y/z	1.005	R
Extract air humidity [%]	x/y/z	9.001	R
Extract air humidity - alarm	x/y/z	1.005	R
Room air quality [ppm]	x/y/z	9.008	R
Room air quality - alarm	x/y/z	1.005	R
Room air quality 2 [ppm]	x/y/z	9.008	R
Room air quality 2 - alarm	x/y/z	1.005	R
Exhaust filter - state (0-Null, 1-OK, 2-Min, 3-Max, 4-Sensor)	x/y/z	6.020	R
Supply damper - position [%]	x/y/z	5.004	R
Mixing damper - position [%]	x/y/z	5.004	R
Exhaust damper - position [%]	x/y/z	5.004	R
Supply filter - state (0-Null, 1-OK, 2-Min, 3-Max, 4-Sensor)	x/y/z	6.020	R
Supply filter - press [Pa]	x/y/z	9.006	R
Supply filter - press - alarm	x/y/z	1.005	R
Supply filter 2 - state (0-Null, 1-OK, 2-Min, 3-Max, 4-Sensor)	x/y/z	6.020	R
Supply filter 2 - press [Pa]	x/y/z	9.006	R

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Data point	Address	Type	Read/ Write
Supply filter 2 - press - alarm	x/y/z	1.005	R
Exhaust filter - state (0-Null, 1-OK, 2-Min, 3-Max, 4-Sensor)	x/y/z	6.020	R
Exhaust filter - press [Pa]	x/y/z	9.006	R
Exhaust filter - press - alarm	x/y/z	1.005	R
Exhaust filter 2 - state (0-Null, 1-OK, 2-Min, 3-Max, 4-Sensor)	x/y/z	6.020	R
Exhaust filter 2 - press [Pa]	x/y/z	9.006	R
Exhaust filter 2 - press - alarm	x/y/z	1.005	R
Fat filter - state (0-Null, 1-OK, 2-Min, 3-Max, 4-Sensor)	x/y/z	6.020	R
Fat filter - press [Pa]	x/y/z	9.006	R
Fat filter - press - alarm	x/y/z	1.005	R
Supply air fan - state (0-Off, 1-Tempering, 2- Reduced, 3-Comfort, 4-3xSpeed, 5-RoomUnit, 6-SupplyTemp, 7-Mixing, 8-AirQuality, 9-Press, 10-Ventilation, 11-Filtr, 12-Start, 13-Release, 14-Error)	x/y/z	6.020	R
Supply air fan - On	x/y/z	1.001	R
Supply air fan - power [%]	x/y/z	5.004	R
Supply air fan - alarm	x/y/z	1.005	R
Supply air fan - press [Pa]	x/y/z	9.006	R
Supply air fan - press - alarm	x/y/z	1.005	R
Supply air fan - flow [Pa]	x/y/z	9.006	R
Supply air fan - flow - alarm	x/y/z	1.005	R
Supply air fan - actual flow [m3/h]	x/y/z	9.009	R
Exhaust air fan - state (0-Off, 1-Tempering, 2- Reduced, 3-Comfort, 4-3xSpeed, 5-RoomUnit, 6-SupplyTemp, 7-Mixing, 8-AirQuality, 9-Press, 10-Ventilation, 11-Filtr, 12-Start, 13-Release, 14-Error)	x/y/z	6.020	R
Exhaust air fan - On	x/y/z	1.001	R
Exhaust air fan - power [%]	x/y/z	5.004	R
Exhaust air fan - alarm	x/y/z	1.005	R
Exhaust air fan - press [Pa]	x/y/z	9.006	R
Exhaust air fan - press - alarm	x/y/z	1.005	R
Exhaust air fan - flow [Pa]	x/y/z	9.006	R
Exhaust air fan - flow - alarm	x/y/z	1.005	R
Exhaust air fan - actual flow [m3/h]	x/y/z	9.009	R
Recuperator - state (0-Off, 1-Cool, 2-Heat, 3-Humidity, 8-Preheat, 9-NoCool, 10-NoHeat, 11-Defrost, 12-Error)	x/y/z	6.020	R
Recuperator - On	x/y/z	1.001	R
Recuperator - power [%]	x/y/z	5.004	R
Recuperator - alarm	x/y/z	1.005	R
Recuperator - frost detector - press [Pa]	x/y/z	9.006	R
Recuperator - frost detector - press - alarm	x/y/z	1.005	R
Glycol - state (0-Off, 1-Cool, 2-Heat, 6-WaterTemperature, 9-NoCool, 10-NoHeat, 11-Defrost, 12-Error)	x/y/z	6.020	R
Glycol - On	x/y/z	1.001	R
Glycol - power [%]	x/y/z	5.004	R
Glycol - alarm	x/y/z	1.005	R
Glycol - frost detector - press [Pa]	x/y/z	9.006	R
Glycol - frost detector - press - alarm	x/y/z	1.005	R
Glycol - medium circuit - press [Pa]	x/y/z	9.006	R
Glycol - medium circuit - press - alarm	x/y/z	1.005	R

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Data point	Address	Type	Read/ Write
Water heater - state (0-Off, 2-Heat, 3-Humidity, 4-OutdoorTemperature, 5-SupplyTemperature, 6-WaterTemperature, 8-Preheat, 10-NoHeat, 11-Defrost, 12-Error)	x/y/z	6.020	R
Water heater - On	x/y/z	1.001	R
Water heater - power [%]	x/y/z	5.004	R
Water heater - frost protect - alarm	x/y/z	1.005	R
Water heater - alarm	x/y/z	1.005	R
Water cooler - state (0-Off, 1-Cool, 9-NoCool, 12-Error)	x/y/z	6.020	R
Water cooler - On	x/y/z	1.001	R
Water cooler - power [%]	x/y/z	5.004	R
Water cooler - alarm	x/y/z	1.005	R
Electrical heater- state (0-Off, 2-Heat, 5-SupplyTemperature, 12-Error)	x/y/z	6.020	R
Electrical heater- On	x/y/z	1.001	R
Electrical heater- power [%]	x/y/z	5.004	R
Electrical heater- alarm	x/y/z	1.005	R
Gas heater- state (0-Off, 2-Heat, 5-SupplyTemperature, 7-FlueTemperature, 10-NoHeat, 12-Error)	x/y/z	6.020	R
Gas heater- On	x/y/z	1.001	R
Gas heater- power [%]	x/y/z	5.004	R
Gas heater- alarm	x/y/z	1.005	R
Gas damper - position [%]	x/y/z	5.004	R
Gas damper - press [Pa]	x/y/z	9.006	R
Gas damper - press - alarm	x/y/z	1.005	R
Condensing unit 1 - state (0-Off, 1-Cool, 2-Heat, 3-Humidity, 4-OutdoorTemp, 9-NoCool, 10-NoHeat, 11-Defrost, 12-Error)	x/y/z	6.020	R
Condensing unit 1 - On	x/y/z	1.001	R
Condensing unit 1 - power [%]	x/y/z	5.004	R
Condensing unit 1 - alarm	x/y/z	1.005	R
Condensing unit 2 - state (0-Off, 1-Cool, 2-Heat, 3-Humidity, 4-OutdoorTemp, 9-NoCool, 10-NoHeat, 11-Defrost, 12-Error)	x/y/z	6.020	R
Condensing unit 2 - On	x/y/z	1.001	R
Condensing unit 2 - power [%]	x/y/z	5.004	R
Condensing unit 2 - alarm	x/y/z	1.005	R
Condensing unit 3 - state (0-Off, 1-Cool, 2-Heat, 3-Humidity, 4-OutdoorTemp, 9-NoCool, 10-NoHeat, 11-Defrost, 12-Error)	x/y/z	6.020	R
Condensing unit 3 - On	x/y/z	1.001	R
Condensing unit 3 - power [%]	x/y/z	5.004	R
Condensing unit 3 - alarm	x/y/z	1.005	R
Condensing unit 4 - state (0-Off, 1-Cool, 2-Heat, 3-Humidity, 4-OutdoorTemp, 9-NoCool, 10-NoHeat, 11-Defrost, 12-Error)	x/y/z	6.020	R
Condensing unit 4 - On	x/y/z	1.001	R
Condensing unit 4 - power [%]	x/y/z	5.004	R
Condensing unit 4 - alarm	x/y/z	1.005	R
Heat pump 1 - state (0-Off, 1-Cool, 2-Heat, 9-NoCool, 10-NoHeat, 11-Defrost, 12-Error)	x/y/z	6.020	R
Heat pump 1 - On	x/y/z	1.001	R
Heat pump 1 - power [%]	x/y/z	5.004	R
Heat pump 1 - alarm	x/y/z	1.005	R

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Data point	Address	Type	Read/Write
Heat pump 2 - state (0-Off, 1-Cool, 2-Heat, 9-NoCool, 10-NoHeat, 11-Defrost, 12-Error)	x/y/z	6.020	R
Heat pump 2 - On	x/y/z	1.001	R
Heat pump 2 - power [%]	x/y/z	5.004	R
Heat pump 2 - alarm	x/y/z	1.005	R
Heat pump - frost detector - press [Pa]	x/y/z	9.006	R
Heat pump - frost detector - press - alarm	x/y/z	1.005	R
Humidifier - state (0-Off, 3-Humidity, 12-Error)	x/y/z	6.020	R
Humidifier - On	x/y/z	1.001	R
Humidifier - power [%]	x/y/z	5.004	R
Humidifier - alarm	x/y/z	1.005	R
Outdoor temperature limit for season summer/winter [°C]	x/y/z	9.001	R/W
Delay change season [min]	x/y/z	7.006	R/W
Season (0-summer,1-winter)	x/y/z	6.020	R
Fire - alarm	x/y/z	1.005	R
Smoke 1 - alarm	x/y/z	1.005	R
Smoke 2 - alarm	x/y/z	1.005	R
Damp fires - alarm	x/y/z	1.005	R
Damp fire 1 - state (0-Null, 1-Between, 2-Close, 3-Open, 4-Error, 5-Error)	x/y/z	6.020	R
Damp fire 2 - state (0-Null, 1-Between, 2-Close, 3-Open, 4-Error, 5-Error)	x/y/z	6.020	R
Damp fire 3 - state (0-Null, 1-Between, 2-Close, 3-Open, 4-Error, 5-Error)	x/y/z	6.020	R
Damp fire 4 - state (0-Null, 1-Between, 2-Close, 3-Open, 4-Error, 5-Error)	x/y/z	6.020	R
Damp fire 5 - state (0-Null, 1-Between, 2-Close, 3-Open, 4-Error, 5-Error)	x/y/z	6.020	R
Damp fire 6 - state (0-Null, 1-Between, 2-Close, 3-Open, 4-Error, 5-Error)	x/y/z	6.020	R
Damp fire 7 - state (0-Null, 1-Between, 2-Close, 3-Open, 4-Error, 5-Error)	x/y/z	6.020	R
Damp fire 8 - state (0-Null, 1-Between, 2-Close, 3-Open, 4-Error, 5-Error)	x/y/z	6.020	R
Damp fire 9 - state (0-Null, 1-Between, 2-Close, 3-Open, 4-Error, 5-Error)	x/y/z	6.020	R
Damp fire 10 - state (0-Null, 1-Between, 2-Close, 3-Open, 4-Error, 5-Error)	x/y/z	6.020	R
Damp fire 11 - state (0-Null, 1-Between, 2-Close, 3-Open, 4-Error, 5-Error)	x/y/z	6.020	R
Damp fire 12 - state (0-Null, 1-Between, 2-Close, 3-Open, 4-Error, 5-Error)	x/y/z	6.020	R
Damp fire 13 - state (0-Null, 1-Between, 2-Close, 3-Open, 4-Error, 5-Error)	x/y/z	6.020	R
Damp fire 14 - state (0-Null, 1-Between, 2-Close, 3-Open, 4-Error, 5-Error)	x/y/z	6.020	R
Damp fire 15 - state (0-Null, 1-Between, 2-Close, 3-Open, 4-Error, 5-Error)	x/y/z	6.020	R
Damp fire 16 - state (0-Null, 1-Between, 2-Close, 3-Open, 4-Error, 5-Error)	x/y/z	6.020	R

Important:

- All data points may not be accessible. The usability of some registers depends on the specific configuration of the Climatix controller.

- Address range of data points x/y/z: 1/0/0 to 15/15/255

- Maximum number of data points for one controller: 100

- The specific list of data points is given by the configuration of the air conditioning unit

KNX S-mode connection variants

Interface:	
Process bus	Based on KNX TP1 (refer to KNX Manual)
Bus connection 2-wire twisted pair	CE+, CE-, not interchangeable
Bus connection / electronics	Galvanically isolated
Bus load	Max. 5 mA
Bus cable	Must be shielded; refer to KNX Manual
Bus cable length between 2 KNX nodes	Max. length is 700 m
Total length of bus KNX cable	Max. length of KNX cable is 1000 m
Bus power supply via	Internal DPSU with 50 mA nominal

Connecting the process bus

