	emp). &	Humidity	Sensor N	Modbus / ES 1099		Technical data:
					Clamps: 1: MOD-BUS A 2: MOD-BUS B 3: GND / 0Volt 4: 12-24V DC		Supply: 12 - 24V DC Power Consumption: 12V: 100mA - 24V: 50mA Operating Temperature: 0°C - 45°C accuracy 2% Operating RF: 11-89% accuracy 3% Operating CO2: 400-2000ppm accuracy 3% (40ppm) Bus type: MODBUS Enclosure: IP 30 Dimension: 70x70x30mm Description:: Combination Modbus Sensor available in 2 versions. Product number 48401 is a Modbus combination sensor, which measures CO2, temperature and humidity. Product number 48402 is also a Modbus combination sensor. However, this sensor is only measuring temperature and humidity - not CO2. The latter meaning that if product t 48402 is chosen the register 3000 CO2 Level will always be 0.
		1 f					For instructions on connecting MODPLIS places refer to
MOD-E	3US in	terfac	e. Setting by DI	P switches.			For instructions on connecting MODBUS please refer to www.modbus.org
MOD-E DP2 0	BUS in DP3 0		e. Setting by DI Node-ID 101	P switches.	Data:		www.modbus.org Product number 48401 Modbus combination sensor with CO ₂ measurement uses the widely used ABC algorithm, which ensures long
DP2	DP3	DP4	Node-ID	Available D	Data:	Formatting	www.modbus.org Product number 48401 Modbus combination sensor with CO ₂
DP2	DP3 0	DP4 0	Node-ID 101			Formatting 0 = 0ppm, 2000 = 2000ppm	www.modbus.org Product number 48401 Modbus combination sensor with CO ₂ measurement uses the widely used ABC algorithm, which ensures long life without calibration. Only the room cannot be used constantly, but must regularly get sufficient airflow to lower the CO ₂ to fresh air level.
DP2	DP3 0	DP4 0 0	Node-ID 101 102	Available D Register	Description	-	 www.modbus.org Product number 48401 Modbus combination sensor with CO₂ measurement uses the widely used ABC algorithm, which ensures long life without calibration. Only the room cannot be used constantly, but must regularly get sufficient airflow to lower the CO₂ to fresh air level. Adjustment: No adjustments available. However sensor must be set-up using the
DP2	DP3 0	DP4 0 0	Node-ID 101 102 103	Available D Register 30000	Description CO ₂ Level (0-2000ppm)	0 = 0ppm, 2000 = 2000ppm	www.modbus.org Product number 48401 Modbus combination sensor with CO ₂ measurement uses the widely used ABC algorithm, which ensures long life without calibration. Only the room cannot be used constantly, but must regularly get sufficient airflow to lower the CO ₂ to fresh air level. Adjustment:
DP2	DP3 0 0 1	DP4 0 0 0 0	Node-ID 101 102 103 104	Available D Register 30000 30001	Description CO ₂ Level (0-2000ppm) Temperature (0.0-50.0°C) RF (0-100%)	0 = 0ppm, 2000 = 2000ppm 0 = 0,0°C, 500 = 50,0°C	 www.modbus.org Product number 48401 Modbus combination sensor with CO₂ measurement uses the widely used ABC algorithm, which ensures long life without calibration. Only the room cannot be used constantly, but must regularly get sufficient airflow to lower the CO₂ to fresh air level. Adjustment: No adjustments available. However sensor must be set-up using the
DP2	DP3 0 1 1 0	DP4 0 0 0 0	Node-ID 101 102 103 104 1 105	Available D Register 30000 30001 30002	Description CO ₂ Level (0-2000ppm) Temperature (0.0-50.0°C) RF (0-100%)	0 = 0ppm, 2000 = 2000ppm 0 = 0,0°C, 500 = 50,0°C 0 = 0%, 100 = 100%	 www.modbus.org Product number 48401 Modbus combination sensor with CO₂ measurement uses the widely used ABC algorithm, which ensures long life without calibration. Only the room cannot be used constantly, but must regularly get sufficient airflow to lower the CO₂ to fresh air level. Adjustment: No adjustments available. However sensor must be set-up using the
DP2	DP3 0 1 1 0	DP4 0 0 0 0	Node-ID 101 102 103 104 105 106	Available D Register 30000 30001 30002 30003	Description CO2 Level (0-2000ppm) Temperature (0.0-50.0°C) RF (0-100%) Intern PCB temp. 0.0-50.0°C)	0 = 0ppm, 2000 = 2000ppm 0 = 0,0°C, 500 = 50,0°C 0 = 0%, 100 = 100%	 www.modbus.org Product number 48401 Modbus combination sensor with CO₂ measurement uses the widely used ABC algorithm, which ensures long life without calibration. Only the room cannot be used constantly, but must regularly get sufficient airflow to lower the CO₂ to fresh air level. Adjustment: No adjustments available. However sensor must be set-up using the