Modbus INT69 PYF
xx A 721 (intern)

Start	End	Type	Description
8192	8192	u 16bit	High Byte: Visu-ID Low Byte: reserved
8193	8193	u 16bit	High (12bit): part number Low (4bit):reserved
8194	8195	u 32bit	Continuous serial number within the article number Low word first
8198	8198	u 16bit	error Messages Bit 0: 0 = no error , 1 = at least one error is current appending
8199	8199	u 16bit	Operating state Bit 0 - motor status: 1=motor is running Bit 6 - alarm relay Bit 7 - warning relay Bit 8 - reset input Bit 9 - reset button { 1=active}
8206	8206	u 16bit	High Byte: Major Software Revision Number Low Byte: Minor Software Revision Number
8207	8207	u 16bit	Function Description 0 = Engineering Sample 1.9 = variant
8210	8210	u 16bit	Variants to Articles Number if value < 10000 "S" [value] if value > 10000 "P" [value - 10000]
8211	8211	u 16bit	voltage key 13=24V DC 20=24V AC/DC 22=115-230V AC 31=24V AC 41=115V AC 52=230V AC
8212	8213	u 32bit	Total error shutdowns Low word first
8214	8215	u 32bit	Total number of pump starts Low word first
8216	8216	u 16bit	Current hour period in seconds (internal time) 0...3599 seconds

Start	End	Type	Description
8217	8217	u 16bit	Residual delay time estimated time period until the compressor can be switched on again 0..65533 sec 65.535 = Locked switch off 65.534 = indefinite time
8218	8219	u 32bit	Time stamp Seconds from 01.01.1970 00:00:00 POSIX format
8220	8221	u 32bit	Time stamp of the last operational switching Seconds from 01.01.1970 00:00:00 POSIX format
8228	8228	u 16bit	Number of hours of the current day (internal time) 0-23h
8232	8232	u 16bit	Module state motor temperature High Byte: event number Low Byte: modul status Bit coded Bit 0 = Active Bit 1 = Warning Bit 2 = Trip Bit 3 = Time delay active Bit 4 = Locked out
8233	8233	u 16bit	motor sensor ohmic value 1…65 535Ω, 0 = not present
8234	8234	u 16bit	Actual state of modul temperature 1, High Byte: event number Low Byte: modul status Bit coded Bit 0 = Active Bit 1 = Warning Bit 2 = Trip Bit 3 = Time delay active Bit 4 = Locked out
8235	8235	u 16bit	Temperatur sensor 1 ohmic value 1…65 535Ω, 0 = not present
8236	8236	u 16bit	Actual state of modul temperature 2, High Byte: event number Low Byte: modul status Bit coded Bit 0 = Active Bit 1 = Warning Bit 2 = Trip Bit 3 = Time delay active Bit 4 = Locked out
8237	8237	u 16bit	Temperatur sensor 2 ohmic value 1-65535Ω, 0 = not present

Start	End	Type	Description
8238	8238	u 16bit	Module status leakage monitoring 1 High Byte: event number Low Byte: modul status Bit coded Bit 0 = Active Bit 1 = Warning Bit 2 = Trip Bit 3 = Time delay active Bit 4 = Locked out
8239	8239	u 16bit	Leakage 1 ohmic value 1…65535Ω, 0 = not present
8242	8242	u 16bit	Module state analog input High Byte: event number Low Byte: modul status Bit coded Bit 0 = Active Bit 1 = Warning Bit 2 = Trip Bit 3 = Time delay active Bit 4 = Locked out
8243	8243	u 16bit	Analog input value Current = value / 10 0.0… 6553.5mA
8244	8244	u 16bit	Actual state of modul current sensor 1 High Byte: event number Low Byte: modul status Bit coded Bit 0 = Active Bit 1 = Warning Bit 2 = Trip Bit 3 = Time delay active Bit 4 = Locked out
8245	8245	u 16bit	Motor current actual value Current = value * 10mA 0,01…655,35A
8246	8246	u 16bit	Module state Cos Phi monitoring High Byte: event number Low Byte: modul status Bit coded Bit 0 = Active Bit 1 = Warning Bit 2 = Trip Bit 3 = Time delay active Bit 4 = Locked out
8247	8247	s 16bit	Cosϕ actual value Cosϕ = value / 100 -1,00 ... + 1,00

Start	End	Type	Description
8248	8248	u 16bit	Module state phase sequence High Byte: event number Low Byte: modul status Bit coded Bit 0 = Active Bit 1 = Warning Bit 2 = Trip Bit 3 = Time delay active Bit 4 = Locked out
8249	8249	u 16bit	Module status FC monitoring High byte: error number Low byte: bit coded module status Bit 0 = active Bit 1 = warning Bit 2 = error Bit 3 = restart delay Bit 4 = locked
8250	8250	u 16bit	Module state phase loss High Byte: event number Low Byte: modul status Bit coded Bit 0 = Active Bit 1 = Warning Bit 2 = Trip Bit 3 = Time delay active Bit 4 = Locked out
8251	8251	u 16bit	Module state phase imbalance High Byte: event number Low Byte: modul status Bit coded Bit 0 = Active Bit 1 = Warning Bit 2 = Trip Bit 3 = Time delay active Bit 4 = Locked out
8252	8252	u 16bit	Module state line undervoltage High Byte: event number Low Byte: modul status Bit coded Bit 0 = Active Bit 1 = Warning Bit 2 = Trip Bit 3 = Time delay active Bit 4 = Locked out
8253	8253	u 16bit	Module state line overvoltage High Byte: event number Low Byte: modul status Bit coded Bit 0 = Active Bit 1 = Warning Bit 2 = Trip Bit 3 = Time delay active Bit 4 = Locked out

Start	End	Type	Description
8254	8254	u 16bit	Module status relay monitoring High Byte: event number Low Byte: modul status Bit coded Bit 0 = Active Bit 1 = Warning Bit 2 = Trip Bit 3 = Time delay active Bit 4 = Locked out
8255	8255	u 16bit	Pump runtime while "operation despite shutdown" was recognized time = value * 10min 0…655 350min
8256	8256	u 16bit	Module state short cycling monitoring High Byte: event number Low Byte: modul status Bit coded Bit 0 = Active Bit 1 = Warning Bit 2 = Trip Bit 3 = Time delay active Bit 4 = Locked out
8258	8258	u 16bit	Module state generaly High Byte: event number Low Byte: modul status Bit coded Bit 0 = Active Bit 1 = Warning Bit 2 = Trip Bit 3 = Time delay active Bit 4 = Locked out
8260	8260	u 16bit	Module status switching input High byte: Module status after error list Low byte: Module status bit-coded Bit 0 = active Bit 1 = warning Bit 2 = error Bit 3 = switch-back delay Bit 4 = locked
8268	8269	u 32bit	Operating time Operating time = value * 10 min 0…4 294 967 296 min Low word first
8270	8271	u 32bit	Operating time with active warning Operating time = value * 10 min 0…4 294 967 296 min Low word first
8274	8275	u 32bit	Time without operation Operating time = value * 10 min 0…4 294 967 296 min Low word first
8292	8292	s 16offset	motor temperature actual value Temperature = (value - 32768) / 100 -327,00 ° C … + 327,00 ° C

Start	End	Type	Description
8294	8294	s 16offset	Temperature sensor 1 actual value Temperature = (value - 32768) / 100 -327,00 ° C … + 327,00 ° C 65535 = not available
8295	8295	s 16offset	Temperature sensor 2 actual value Temperature = (value - 32768) / 100 -327,00 ° C … + 327,00 ° C 65535 = not available
8296	8296	u 16bit	Phase voltage L1 0…65535 V
8297	8297	u 16bit	Phase voltage L2 0…65535 V
8298	8298	u 16bit	Phase voltage L3 0…65535 V
8299	8299	u 16bit	Mean frequency between L1 and L2 3 … 65535 Motor frequency in Hz 0 = not used 1 = frequency 0Hz 2 = wrong phase sequence
8300	8301	u 32bit	Reactive power actual value 0… 4,294,967,295 var Low word first
8302	8303	u 32bit	Active power actual value 0… 4,294,967,295 W Low word first
8304	8305	u 32bit	Apparent power actual value 0… 4,294,967,295 VA Low word first
8306	8307	u 32bit	Active energy meter actual value Energy = value / 100 kWh 0… 4,294,967,295 Low word first
8308	8309	u 32bit	Reactive energy meter actual value Energy = value / 100 kVarh 0… 4,294,967,295 Low word first
8354	8355	u 32bit	Event log: Last event timestamp 0… 4,294,967,295 seconds from 01.01.1970 00:00:00, POSIX format
8356	8356	u 16bit	Event memory: Last event error number
8432	8432	u 16bit	Life time counter: motor temperature static shutdown alarm The following event numbers are counted here: {2}, {15}, {38}, {39}, {55}
8433	8433	u 16bit	Life time counter: motor temperature static shutdown Alarm, locked

Start	End	Type	Description
8434	8434	u 16bit	Life time counter: motor sensor short circuit alarm The following event numbers are counted here: {8}, {40}
8435	8435	u 16bit	Life time counter: motor sensor open circuit alarm The following event numbers are counted here: {10}, {41}
8436	8436	u 16bit	Life time counter: Temperature sensor 1 limit exceeded trip The following event numbers are counted here: {56}, {57}
8437	8437	u 16bit	Life time counter: Temperature sensor 1 limit exceeded locked The following event numbers are counted here: {56},{57}
8438	8438	u 16bit	Life time counter: Temperature sensor 1 short circuit trip The following event numbers are counted here: {58}
8439	8439	u 16bit	Life time counter: Temperature sensor 1 open circuit trip The following event numbers are counted here: {59}
8440	8440	u 16bit	Life time counter: Temperature sensor 2 limit exceeded trip The following event numbers are counted here: {60}, {61}
8441	8441	u 16bit	Life time counter: Temperature sensor 2 limit exceeded locked The following event numbers are counted here: {60}, {61}
8442	8442	u 16bit	Life time counter: Temperature sensor 2 short circuit trip The following event numbers are counted here: {62}
8443	8443	u 16bit	Life time counter: Temperature sensor 2 open circuit trip The following event numbers are counted here: {63}
8444	8444	u 16bit	Life time counter: Leakage monitoring 1 trip The following event numbers are counted here: {64}, {65}
8445	8445	u 16bit	Life time counter: Leakage monitoring 1 locked The following event numbers are counted here: {64},{65}
8448	8448	u 16bit	Total over lifetime: analog input cut-off value exceeded alarm The following error numbers are counted here: {68}
8449	8449	u 16bit	Total over lifetime: analog input cut-off value exceeded Locked The following error numbers are counted here: {68}
8450	8450	u 16bit	Total over lifetime: analog input sensor error alarm The following error numbers are counted here: {69}

Start	End	Type	Description
8451	8451	u 16bit	Total over lifetime: analog input warning value exceeded warning The following error numbers are counted here: {127}
8452	8452	u 16bit	Life time counter: current sensor 1 limit exceeded Trip The following event numbers are counted here: {}
8453	8453	u 16bit	Life time counter: current sensor 1 limit exceeded Locked The following event numbers are counted here: {}
8454	8454	u 16bit	Life time counter: current sensor 1 sensor error Trip The following event numbers are counted here: {}
8455	8455	u 16bit	Total over the lifetime: Current transformer input 1 Warnings The following error numbers are counted here: {}
8456	8456	u 16bit	Total over lifetime: shutdowns due to Cos Phi alarm The following event numbers are counted here: {}
8457	8457	u 16bit	Total over lifetime: shutdowns due to Cos Phi Locked The following event numbers are counted here: {}
8459	8459	u 16bit	Life time counter: phase sequence error Alarm, locked The following event numbers are counted here: {27}
8460	8460	u 16bit	Life time counter: phase loss alarm The following event numbers are counted here: {28}
8461	8461	u 16bit	Life time counter: phase loss Alarm, locked
8462	8462	u 16bit	Life time counter: Phase asymmetry detected alarm The following event numbers are counted here: {29}
8463	8463	u 16bit	Total of lockouts due to phase asymmetry alarm
8464	8464	u 16bit	Live time couter: low Voltage Trips
8465	8465	u 16bit	Life time counter: phase monitoring undervoltage Alarm, locked
8466	8466	u 16bit	Total of shutdowns due to line overvoltage alarm
8467	8467	u 16bit	Life time counter: phase monitoring overvoltage Alarm, locked
8468	8468	u 16bit	Life time counter: Monitoring frequency converter Trip The following event numbers are counted here: {}

Start	End	Type	Description
8469	8469	u 16bit	Life time counter: Monitoring frequency converter Locked The following event numbers are counted here: {}
8470	8470	u 16bit	Life time counter: switching frequency limit alarm The following event numbers are counted here: {7}
8471	8471	u 16bit	Life time counter: short cycling limitation lockout
8472	8472	u 16bit	Life time counter: Device failure Trip The following event numbers are counted here: {31}
8474	8474	u 16bit	Total over lifetime: switching input alarm The following event numbers are counted here: {}
8475	8475	u 16bit	Total over lifetime: switching input Locked The following event numbers are counted here: {}
8514	8514	u 16bit	Life time counter: engine temperature exceeded warning The following event numbers are counted here: {122}
8515	8515	u 16bit	Life time counter: Leakage monitoring 1 warning The following event numbers are counted here: {125}
8516	8516	u 16bit	Life time counter: Temperature sensor 1 limit exceeded warning The following event numbers are counted here: {123}
8517	8517	u 16bit	Life time counter: Temperature sensor 2 limit exceeded warning The following event numbers are counted here: {124}
8518	8518	u 16bit	Life time counter: phase monitoring undervoltage warning The following event numbers are counted here: {6}, {116}
8519	8519	u 16bit	Life time counter: phase monitoring overvoltage warning
8520	8520	u 16bit	Total of warnings due to phase asymmetry alarm
8521	8521	u 16bit	Life time counter: Monitoring frequency converter Warning The following event numbers are counted here: {}
8524	8524	u 16bit	Total over the lifetime: Cos Phi exceedance Warning The following event numbers are counted here: {}
8526	8526	u 16bit	Life time counter: short cycling limitation warning

Start	End	Type	Description
8527	8527	u 16bit	Life time counter: Motor run detected even though the relay was switched off message The following event numbers are counted here: {11}, {118}
8554	8554	u 16bit	Life time counter: power reset message The following event numbers are counted here: {1}
8555	8555	u 16bit	Total over lifetime: Real-time clock synchronization report The following event numbers are counted here: {}
8556	8556	u 16bit	Total over lifetime: Reset via Modbus report The following event numbers are counted here: {253}
8557	8557	u 16bit	Total over lifetime: Reset via switching input report The following event numbers are counted here: {}
8558	8558	u 16bit	Life time counter: Successful parameter change Message The following event numbers are counted here: {249}
8612	8612	u 16bit	Current operation time of the pump 0…65 535min
8614	8614	u 16bit	Number of running times <5 min Number to determine of quasi- percentage distribution
8615	8615	u 16bit	Number of running times 5-9 min Number to determine of quasi- percentage distribution
8616	8616	u 16bit	Number of running times 10-19 min Number to determine of quasi- percentage distribution
8617	8617	u 16bit	Number of running times 20-29 min Number to determine of quasi- percentage distribution
8620	8620	u 16bit	Number of operation times 120-300 min Number to determine of quasi- percentage distribution
8621	8621	u 16bit	Number of operation times> 300 min Number determine of quasi- percentage distribution
8632	8632	u 16bit	Total number of starts of the current day (internal time) 0…255
8634	8634	u 16bit	Total number of starts of the last day (current day - 1 day, internal time) 0…255
8635	8635	u 16bit	Total number of the starts of the penultimate day (current day - 2 days, internal time) 0…255
8636	8636	u 16bit	Total number of starts of the third day (current day - 3 days, internal time) 0-255
8637	8637	u 16bit	Total number of starts of the fourth day (current day - 4 days, internal time) 0-255

Start	End	Type	Description
8638	8638	u 16bit	Total number of starts of the fifth last day (current day - 5 days, internal time) 0...255
8639	8639	u 16bit	Total number of starts of the sixth day (current day - 6 days, internal time) 0...255
8640	8640	u 16bit	Switching cycles per hour - current hour 0...255
8641	8641	u 16bit	Maximum of the Start/Stop per hour rate - current 24h (internal time) 0…255
8642	8642	u 16bit	Maximum of the Start/Stop per hour rate - before 24-48h (internal time) 0…255
8643	8643	u 16bit	Maximum of the Start/Stop per hour rate - before -48-72h (internal time) 0…255
8644	8644	u 16bit	Maximum of the Start/Stop per hour rate - before 72-96h (internal time) 0…255
8645	8645	u 16bit	Maximum of the Start/Stop per hour rate - before 96-120h (internal time) 0…255
8646	8646	u 16bit	Maximum of the Start/Stop per hour rate - before 120-144h (internal time) 0…255
8647	8647	u 16bit	Maximum of the Start/Stop per hour rate - before 144-168h (internal time) 0…255