

FEATURES

- **MEASUREMENTS OF INSTANTANEOUS VALUES OF MORE THAN 50 QUANTITIES** (V, A, KW, KVA, KVAR, KWH, KVARH, PF, HZ, MD THERMAL, THD, ETC)
- **POWER ACCURACY CLASS 0.5**
- **16 ADJUSTABLE ALARMS**
- **INPUT FREQUENCY:** 50/60 HZ, 400 HZ
- **SERIAL COMMUNICATION** (RS232 OR RS485 UP TO 115,200 BIT/S) AND USB 2.0
- **MODBUS RTU** COMMUNICATION PROTOCOL
- **UP TO 4 I/O** (ANALOGUE OUTPUTS, ALARM OUTPUTS, PULSE OUTPUTS, GENERAL PURPOSE RELAY OUTPUT, GENERAL PURPOSE SOLID-STAT OUTPUT)
- **SINGLE WIDE AUXILIARY POWER SUPPLY RANGE** 24 –300 VDC, 40 – 276 VAC OR FIXED AC: 110 V, 230 V, 400 V
- **AUTOMATIC RANGE OF CURRENT AND VOLTAGE** (MAX. 12.5 A AND 600 V_{rms})
- HOUSING FOR **DIN RAIL MOUNTING**
- USER-FRIENDLY SETTING **SOFTWARE, MiQEN**
- INTEGRATES INTO **MISMART SOFTWARE**

BASIC ACCURACY UNDER REFERENCE CONDITIONS

MEASURAND

CURRENT RMS
VOLTAGE RMS P-N AND P-P
POWER (P, Q, S)
POWER FACTOR (PF)
FREQUENCY (F)
P-N AND P-P ANGLE
THD (U), THD (I) (0 ... 400 %)
ACTIVE ENERGY
REACTIVE ENERGY

ACCURACY (± % OF RANGE)

0.3	0.2 ⁽¹⁾
0.3	0.2 ⁽¹⁾
0.5	0.3 ⁽¹⁾
0.2°	
10 mHz	2 mHz ⁽¹⁾
0.2	
0.5	
CLASS 1	
CLASS 2	

⁽¹⁾ ON COMMUNICATION

COMMUNICATION

CONFIGURATION

WO
RS232
RS485

COM

USB
RS232 + USB
RS485 + USB

INPUT / OUTPUT MODULES

OUTPUT

ANALOGUE OUTPUT
FAST ANALOGUE OUTPUT
ELECTROMECHANICAL RELAY OUTPUT
SOLID-STATE RELAY OUTPUT

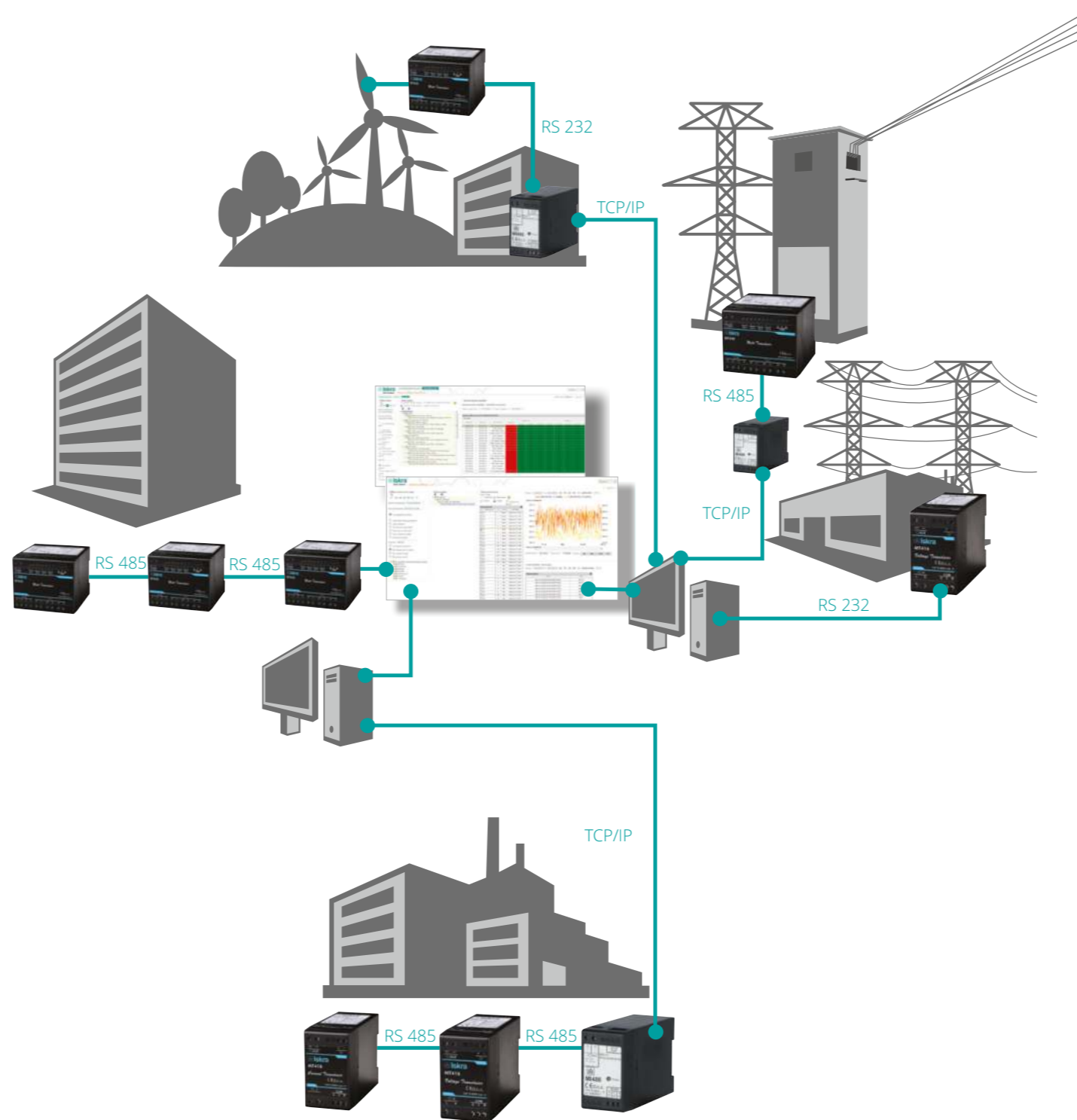
OUTPUT

UP TO 4	ANY I/O
UP TO 4	ANY I/O
UP TO 4	ANY I/O
UP TO 4	ANY I/O

ELECTROMECHANICAL OR SOLID-STATE RELAY OUTPUT CAN BE USED AS

- ALARM OUTPUT
- PULSE OUTPUT
- GENERAL PURPOSE DIGITAL OUTPUT

APPLICATIONS



MEASURING
TRANSDUCERS MT 4xx

- **RELEVANT FOR MEASURING AND MONITORING** SINGLE PHASE OR THREE-PHASE ELECTRICAL POWER NETWORK
- **CERTIFICATE FOR MARINE VERSION** (MT440)



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KEY FEATURES

- **FAST RESPONSE TIME** (50 ms)
- POWER ACCURACY **CLASS 0.5** (EN 60 688),
- **UP TO FOUR I/O MODULES** (ANALOGUE OUT, PULSE OUT, ALARM OUT, GENERAL PURPOSE DIGITAL OUT)
- VOLTAGE AND CURRENT AUTO RANGE MEASUREMENTS **UP TO 600 V, 12.5 A**
- **UNIVERSAL WIDE AUXILIARY POWER SUPPLY RANGE** 24 – 300 VDC, 40 – 276 VA
- **SOPHISTICATED ANALOGUE OUT**; 2 VOLTAGE AND 4 CURRENT RANGES, NON-LINEAR CHARACTERISTIC
- **SIMPLE USB SETTING** WITHOUT AUXILIARY POWER SUPPLY
- CERTIFICATE FOR **MARINE VERSION**

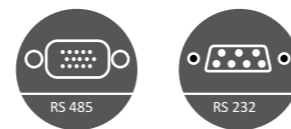
FOR WHOM

FOR ELECTRICITY DISTRIBUTION AND ENERGY PRODUCTION COMPANIES, UTILITIES, DWELLINGS, ENERGY MANAGEMENT SOLUTION PROVIDERS INDUSTRY, BUSINESS BUILDINGS, MARINE, DESIGNERS OF SMALL POWER STATIONS, PANEL BUILDERS, ETC.



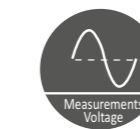
PROGRAMMABLE AC VOLTAGE TRANSDUCERS MT 416

- **RMS AC VOLTAGE** MEASUREMENTS
- VOLTAGE AUTO RANGE MEASUREMENTS **UP TO 600 V_{L-N}**
- FREQUENCY MEASUREMENT **RANGE 16 - 400 HZ**
- **AC OR WIDE AUXILIARY POWER SUPPLY RANGE** 24 - 300 V DC, 40 - 276 V AC
- ACCURACY **CLASS 0.5** (EN 60688)
- SERIAL (**RS232 OR RS485**) COMMUNICATION
- **SOPHISTICATED ANALOGUE OUTPUT**; 2 VOLTAGE AND 4 CURRENT RANGES, NON-LINEAR CHARACTERISTIC
- **SIMPLE USB SETTING** WITHOUT AUXILIARY POWER SUPPLY



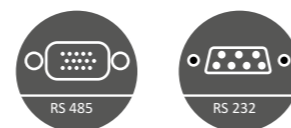
AC VOLTAGE SELF POWERED MEASURING TRANSDUCERS MT 406

- **SINUSOIDAL AC VOLTAGE** MEASUREMENTS
- **VOLTAGE RANGE MEASUREMENTS** UP TO 500 V_{L-N}
- **CURRENT ANALOGUE OUTPUT** 4 ... 20 mA
- **GALVANIC INSULATION** BETWEEN INPUT AND OUTPUT
- ACCURACY **CLASS 0.5** (EN 60688)
- **SELF POWERED**



PROGRAMMABLE AC CURRENT TRANSDUCERS MT 418

- **RMS AC CURRENT** MEASUREMENTS
- VOLTAGE AUTO RANGE MEASUREMENTS **UP TO 12 A**
- FREQUENCY MEASUREMENT **RANGE 16 - 400 HZ**
- **AC OR WIDE AUXILIARY POWER SUPPLY RANGE** 24 - 300 V DC, 40 - 276 V AC
- ACCURACY **CLASS 0.5** (EN 60688)
- SERIAL (**RS232 OR RS485**) COMMUNICATION
- **SOPHISTICATED ANALOGUE OUTPUT**; 2 VOLTAGE AND 4 CURRENT RANGES, NON-LINEAR CHARACTERISTIC
- **SIMPLE USB SETTING** WITHOUT AUXILIARY POWER SUPPLY



AC CURRENT SELF POWERED MEASURING TRANSDUCERS MT 408

- **SINUSOIDAL AC CURRENT** MEASUREMENTS
- **CURRENT RANGE MEASUREMENTS** UP TO 6 A
- **CURRENT ANALOGUE OUTPUT** 4 ... 20 mA
- **GALVANIC INSULATION** BETWEEN INPUT AND OUTPUT
- ACCURACY **CLASS 0.5** (EN 60688)
- **SELF POWERED**

