

Additional features of the LZQJ-XC:

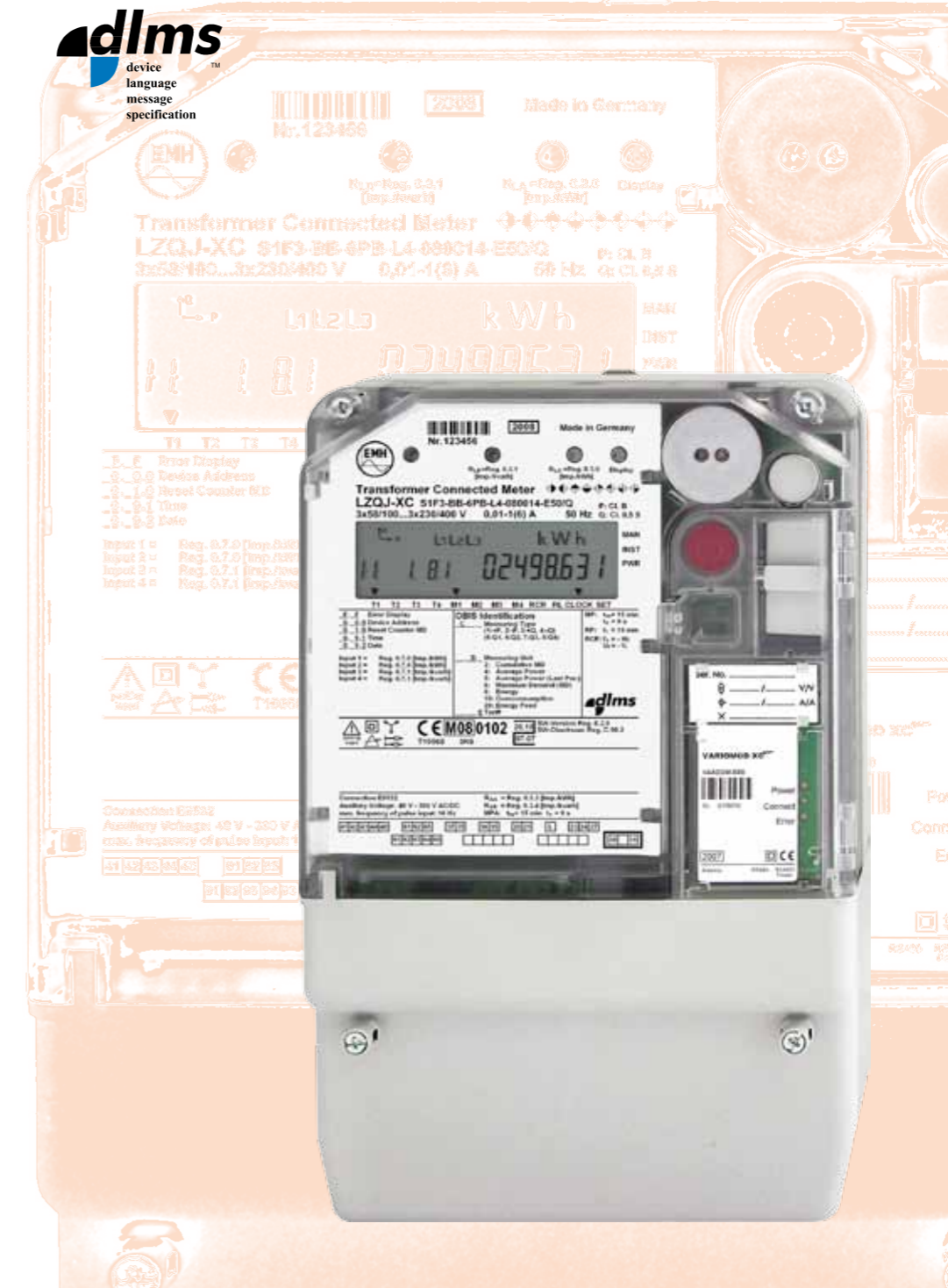
Measuring of instantaneous	P, Q, S (per phase and sum), U, I, power factor, line frequency, values phase failures
Installation check	via instantaneous values (service data) possible
Optical fibre interface	for connection of up to 4 optical fibre separation boxes
Buffer battery	exchangeable buffer battery for reading out the meter via the optical interface and reading the display without power
Tamper detection	opening of meter and terminal cover and magnetic fields
Network analysis	monitoring of U, I, THD, f, flicker, harmonics acc. to DIN EN 50160

The LZQJ-XC fulfils the following standards:

DIN 43857-2	Watt-hour meters in moulded insulation case without instrument transformers, up to 60 A rated maximum current; principal dimensions for poly-phase meters
EN 50470-1	Electricity metering equipment (a.c.) - Part 1: General requirements, tests and test conditions - Metering equipment (class indexes A, B and C)
EN 50470-3	Electricity metering equipment (a.c.) - Part 3: Particular requirements - Static meters for active energy (class indexes A, B and C)
IEC 61000-...	Electromagnetic compatibility (EMC)
IEC 60529	Degrees of protection provided by enclosures (IP code)
IEC 61038	Time switches for tariff and load control
IEC 62052-11	Electricity metering equipment (AC) - General requirements, tests and test conditions - Part 11: Metering equipment
IEC 62053-21	Electricity metering equipment (a.c.) - Particular Requirements - Part 21: Static meters for active energy (classes 1 and 2)
IEC 62053-22	Electricity metering equipment (a.c.) - Particular requirements - Part 22: Static meters for active energy (classes 0,2 S and 0,5 S)
IEC 62053-23	Electricity metering equipment (a.c.) - Particular requirements - Part 23: Static meters for reactive energy (classes 2 and 3)
IEC 62056-21	Electricity metering - Data exchange for meter reading, tariff and load control - Part 21: Direct local data exchange
IEC 62056-46	Electricity metering - Data exchange for meter reading, tariff and load control - Part 46: Data link layer using HDLC protocol
IEC 62056-53	Electricity metering - Data exchange for meter reading, tariff and load control - Part 53: COSEM application layer
IEC 62056-61	Electricity metering - Data exchange for meter reading, tariff and load control - Part 61: Object identification system (OBIS)
IEC 62056-62	Electricity metering - Data exchange for meter reading, tariff and load control - Part 62: Interface classes
DIN 66348-1	Interfaces and basic data link control procedures for serial measurement data communication; start-stop-transmission, point-to-point connection
ITU-T V.11	Electrical characteristics for balanced double-current interchange circuits operating at data signalling rates up to 10 Mbit/s
TIA/EIA-485	Electrical characteristics of generators & receivers for use in balanced digital multipoint systems
ITU-T V.24	List of definitions for interchange circuits between data terminal equipment (DTE) and data circuit-terminating equipment (DCE)
ITU-T V.28	Electrical characteristics for unbalanced double-current interchange circuits

LZQJ-XC

- ✓ Design acc. to VDEW-Specifications 2.1
- ✓ Plugable communication module
- ✓ Exchangeable buffer battery
- ✓ Network analysis
- ✓ Optional with DLMS



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		Direct connection version		Transformer connection version		Precision Meter		Precision Meter		
		5(60) A, 10(60) A, 5(100) A, 10(100) A	3 x 127/220 V... 3 x 240/415 V	Cl. B (Cl. 1)	3 x 58/100 V...3 x 240/415 V (optional 3 x 57,7/100...3 x 277/480 V) or up to 3 x 400/690 V 3 x 100 V...3 x 415 V or up to 3 x 690 V 100 V...240 V	Cl. C (Cl. 0,5 S)	3 x 58/100 V...3 x 240/415 V (optional 3 x 57,7/100...3 x 277/480 V) or up to 3 x 400/690 V 3 x 100 V...3 x 415 V or up to 3 x 690 V 100 V...240 V	Cl. 0,2 S	5(60) A, 10(60) A, 5(100) A, 10(100) A	5(60) A, 10(60) A, 5(100) A, 10(100) A
Voltage	4-wire meter									
	3-wire meter									
	2-wire meter (for 16,7 Hz)									
Current										
Frequency										
Accuracy	active energy									
	reactive energy									
Measuring system	designation									
Measuring types	active energy									
	reactive energy									
	others									
Meter constants	LED (Imp./kWh[kvarh])									
	output (Imp./kWh[kvarh])									
Energy registers	configuration ability									
Maximum registers	maximum number									
	measuring period									
Load profile	maximum number of channels									
	typical memory depth at 1 channel									
	registering period									
	registering type									
Real Time Clock	accuracy									
	synchronisation									
	running reserve battery/capacitor									
Ripple control	number of channels									
receiver	telegrams									
Control inputs	S0-input/system voltage									
Data retention time										
Display	display version									
	height of digits									
	alternative display									
Operation	reading without power supply									
	mechanical buttons									
	optical sensor									
Data interfaces	optical data interface									
	electrical data interface									
	data protocols									
Communication module (plugable)	maximum transmission rate									
	modem									
	interface module									
	data protocols									
Outputs	maximum transmission rate									
	maximum number									
	Opto-MOSFET									
	S0-output									
	relays									
	high load relay									
Energy supply	switched-mode power supply									
	mains buffering time									
Auxiliary voltage supply	long-range									
Power consumption	voltage path									
per phase	with auxiliary voltage									
(Basic meter)	without auxiliary voltage									
	current path									
	auxiliary voltage									
EMC-characteristics	isolation resistance									
	surge voltage									
	resistance against HF-fields									
Temperature range	specified operating range									
	limit range for operation, storage and transport									
Relative humidity										
Housing	dimensions									
	class of protection									
	degree of protection: housing									
	degree of protection: terminal block									
	housing material									
	fire characteristics									
Environmental conditions	mechanical									
	electromagnetic									
Weight	intended location									

Meters from the series LZQJ-XC are designed for universal applications according to VDEW-specifications 2.1. Due to the the application of a tried and tested measuring procedure the meter is distinguished by its high reliability. The high performing processor system guarantees a solid basis for further extensions.

The LZQJ-XC functions can be extended with the following accessories:

Meter modem VARIOMOD-XC (GSM/GPRS, Ethernet, PSTN)

Interface module (RS232, RS485)



DCF-Aerial DCF77-TH2



Optical fibre separation box LTR



Communication and parameterisation software

