

# DVS74

## Three-Phase Electronic Meter Basic Meter metering System 2020



in accordance with FNN specification Basic Meters - Functional Properties, version 1.4

# Data Sheet

# Modern measuring device DVS74

## Type

3 phase direct connected meter for active power measurement, three-point mounting

## Functional Features

Legally compliant electricity meter according to §29 (3) and §61 (3) of the Messstellenbetriebsgesetz (MsbG), as well as FNN - specifications for basic meters Functional features version 1.4. This meter can be upgraded to an intelligent Measuring system (iMSys) according to §21 (1) MsbG using a pluggable LMN interface.

Option: DWS74 with single-phase operation on L3

## Movement parameters

Nominal voltage ( $U_n$ )	3x230 V/400 V
Minimum current ( $I_{min}$ )	0,25 A
Reference current ( $I_{ref}$ )	5 A, 10 A
Maximum current ( $I_{max}$ )	60 A, 85 A, 100 A
Starting current ( $I_{st}$ )	$< 0.004 I_{ref}$
Nominal frequency	50 Hz
Accuracy class	Class A, Class B
Measurement type	+A (with RLS), +A/-A, -A (with RLS), -A (without RLS)
LED pulse values	5,000 Imp./kWh

## Captive consumption

Voltage path	$< 1 \text{ W} / 10 \text{ VA}$ at $U_n$
Current path	$< 0,1 \text{ VA}$ at $I_{ref}$

## Temperature range

Operation	-25 °C to +70 °C
Storage and transportation	-40 °C to +70 °C

## Energy totalizers

Tariffless register	1 per energy direction
Tariff register	Option 2 registers per energy direction, switchable via external terminals or LMN interface

## Additional values

Total output	Current value +P/-P
Active power per phase	Current values +P <sub>L1</sub> /-P <sub>L1</sub> ; +P <sub>L2</sub> /-P <sub>L2</sub> ; +P <sub>L3</sub> /-P <sub>L3</sub>
Current per phase	Current values $I_{L1}$ ; $I_{L2}$ ; $I_{L3}$
Voltage per phase	Current values $U_{L1}$ ; $U_{L2}$ ; $U_{L3}$
Supply frequency	Current value
Phase angle	Current values U-U
Phase angle	Current values I-U

## Display

Design	Two-line, number of characters in accordance with FNN Basic Meters spec.
Scope of the display	Historical consumption values, only without connection with SMGw
Data protection	Configurable using PIN
Operation	Display called and PIN entry via sensor key or optical interface

## Data interfaces

Electrical interface for optional plug-in optical interface	LMN (according to FNN) LoRa, RS485 IEC62056-21, max. 9600 BAUD, inidirectional, (INFO-Data interface acc. FNN)
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## Housing

Dimensions	Approx. 225 x 178 x 59,5 (H x B x T) mm
Protection class	II
Protection rating	IP 51
Material	Glass-fibre-reinforced polycarbonates (flame resistant, can be recycled)

## Terminal block according to DIN 62052-11

Slot for optional plugIn	1 *)
Contact/neutral terminals	ø 9,5 mm (Slotted/Torx PZ2 for control terminals)
Terminal cover	Optional version for plug-in terminal or Piggyback mounting or with top hat rail (DIN-RAIL) for equipmentwith a smart meter gateway

## Weight

Approx. 1 kg