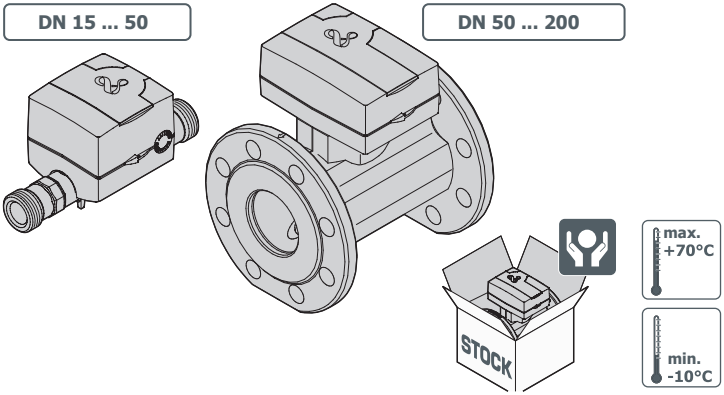
DIEHL
Metering

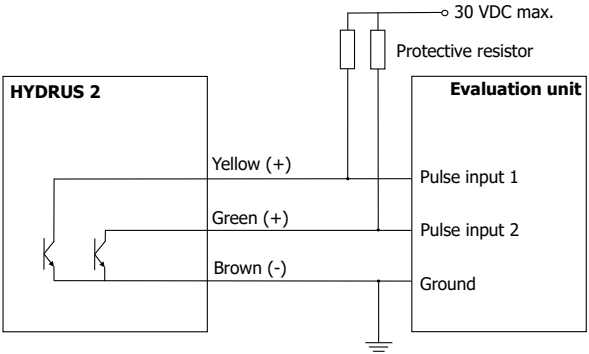
HYDRUS



Pulse outputs (open drain)

Input voltage	max. 30 V
Input current	max. 27 mA
Voltage drop at the active output	max. 2 V / 27 mA
Current through inactive output	max. 5 µA / 30 V
Reverse current	max. 27 mA
Pulse duration, pulse break, pulse frequency	depending on device configuration (detailed description on request)

Connection diagram for passive evaluation devices (e.g. PLC)



The pulse outputs of the HYDRUS are wired as open-drain, i.e. there is no current limitation internally in the meter. In order to assure functional reliability, a protective resistor is absolutely necessary for each pulse output, taking into account the input voltage (maximum 30 V) and the input current (maximum 27 mA).

Example of calculating the protective resistor of a standard PLC with 24 VDC and input current 24 mA:
R= U/I = 24 V / 24 mA = 1 kOhm

Cable pin assignment

The Radio/L-Bus/Pulse, version of the meter are supplied with a 1.5 m 2/3/4/5-wire connecting cable with wire end ferrules.

	Radio/ L-Bus/ Pulse
M-Bus	
Pulse, Output 1	
Pulse, Output 2	x
L-Bus	x
Connection (network name)	
GND	brown
Pulse 1 or L-Bus	yellow
Pulse 2	green
M-Bus 1	
M-Bus 2	
Manipulation / Tampering	
Number of Wires	3

Never connect the external M-Bus to the pulse output of the meter! It will destroy the pulse output and lead to the loss of all factory warranty claims.