



# Multical 801 with Ultraflow 54

This heat meter, when used with the sub-assemblies and configured as detailed below, has been independently verified by Kiwa as suitably compliant with the Measuring Instruments Directive for the purposes of claiming the Renewable Heat Incentive.

**Manufacturer:**  
Diehl Metering Group

**MID Class:**  
Class 2

**Minimum pipe size:**  
G3/4 B (R1/2)

**Maximum pipe size**  
DN250

**Location of flow sensor**  
Flow or Return

**Heat conveying liquid**  
Water

## Meter Subassemblies

### Contact Information

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Part number	Pipe size	Max flow rate $q_s$ (m <sup>3</sup> /h)	Nominal flow rate $q_p$ (m <sup>3</sup> /h)	Min flow rate $q_i$ (m <sup>3</sup> /h)	Max temp $\theta_{max}$ (°C)	Min temp $\theta_{min}$ (°C)	Min temp diff $\Delta\theta_{max}$ (°C)
65-5-CAAA-xxx	G3/4 B (R1/2)	1.2	0.6	0.006	130	15	3
65-5-CAAD-xxx	G1 B (R3/4)	1.2	0.6	0.006	130	15	3
65-5-CDAА-xxx	G3/4 B (R1/2)	3	1.5	0.01	130	15	3
65-5-CDAC-xxx	G3/4 B (R1/2)	3	1.5	0.01	130	15	3
65-5-CDAD-xxx	G1 B (R3/4)	3	1.5	0.01	130	15	3
65-5-CDAE-xxx	G1 B (R3/4)	3	1.5	0.01	130	15	3
65-5-CDAF-xxx	G1 B (R3/4)	3	1.5	0.01	130	15	3
65-5-CDCA-xxx	DN20	3	1.5	0.01	130	15	3
65-5-CEAF-xxx	G1 B (R3/4)	5	2.5	0.02	130	15	3
65-5-CECA-xxx	DN20	5	2.5	0.02	130	15	3
65-5-CGAG-xxx	G5/4 B (R1)	7	3.5	0.03	130	15	3
65-5-CGCB-xxx	DN25	7	3.5	0.03	130	15	3



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65-5-CHAG-xxx	G5/4 B (R1)	12	6	0.06	130	15	3
65-5-CHCB-xxx	DN25	12	6	0.06	130	15	3
65-5-CJAJ-xxx	G2 B (R1 1/2)	20	10	0.1	130	15	3
65-5-CJCD-xxx	DN40	20	10	0.1	130	15	3
65-5-CKCE-xxx	DN50	30	15	0.15	130	15	3
65-5-CLCG-xxx	DN65	50	25	0.25	130	15	3
65-5-CMCH- xxx	DN80	80	40	0.4	130	15	3
65-5-FACL-xxx	DN100	120	60	0.6	130	15	3
65-5-FBCL-xxx	DN100	200	100	1	130	15	3
65-5-FCCN-xxx	DN150	300	150	1.5	130	15	3
65-5-FDCN-xxx	DN150	500	250	2.5	130	15	3
65-5-FECN-xxx	DN150	800	400	4	130	15	3
65-5-FECP-xxx	DN200	800	400	4	130	15	3
65-5-FECP-xxx	DN200	800	400	4	130	15	3
65-5-FECP-xxx	DN200	800	400	4	150	2	3
65-5-FECP-xxx	DN250	800	400	4	150	2	3
65-5-FFCP-xxx	DN250	1200	600	6	150	2	3
65-5-FFCR-xxx	DN250	1200	600	6	150	2	3
65-5-FFCR-xxx	DN250	1200	600	6	150	2	3
65-5-FGCR-xxx	DN250	2000	1000	10	150	2	3

### Additional notes

ULTRAFLOW 54 flow sensor with MULTICAL 801 calculator coupled with temperature sensor sets from the list below:

2 wire temperature sensor sets:

- 65-00-0A0-000 - Pocket sensors Pt500 1.5m length (pair)
- 65-00-0B0-000 - Pocket sensors Pt500 3.0m length (pair)
- 65-00-0C0-000 - Pocket sensors Pt500 5.0m length (pair)
- 65-00-0D0-000 - Pocket sensors Pt500 10.0m length (pair)
- 66-00-0F0-000 - Direct sensors Pt500 1.5m length (pair)
- 66-00-0G0-000 - Direct sensors Pt500 3.0m length (pair)
- 65-00-0L0-000 - Pocket sensors Pt500 1.5m length (3pcs)
- 65-00-0M0-000 - Pocket sensors Pt500 3.0m length (3pcs)
- 65-00-0N0-000 - Pocket sensors Pt500 5.0m length (3pcs)
- 65-00-0P0-000 - Pocket sensors Pt500 10.0m length (3pcs)
- 66-00-0Q3-000 - Direct sensors Pt500 1.5m length (3pcs)

4 wire temperature sensor sets:



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65-56-02-000 - Pocket sensors Pt500 incl. 90mm pocket

65-56-03-000 - Pocket sensors Pt500 incl. 140mm pocket

65-56-04-000 - Pocket sensors Pt500 incl. 180mm pocket