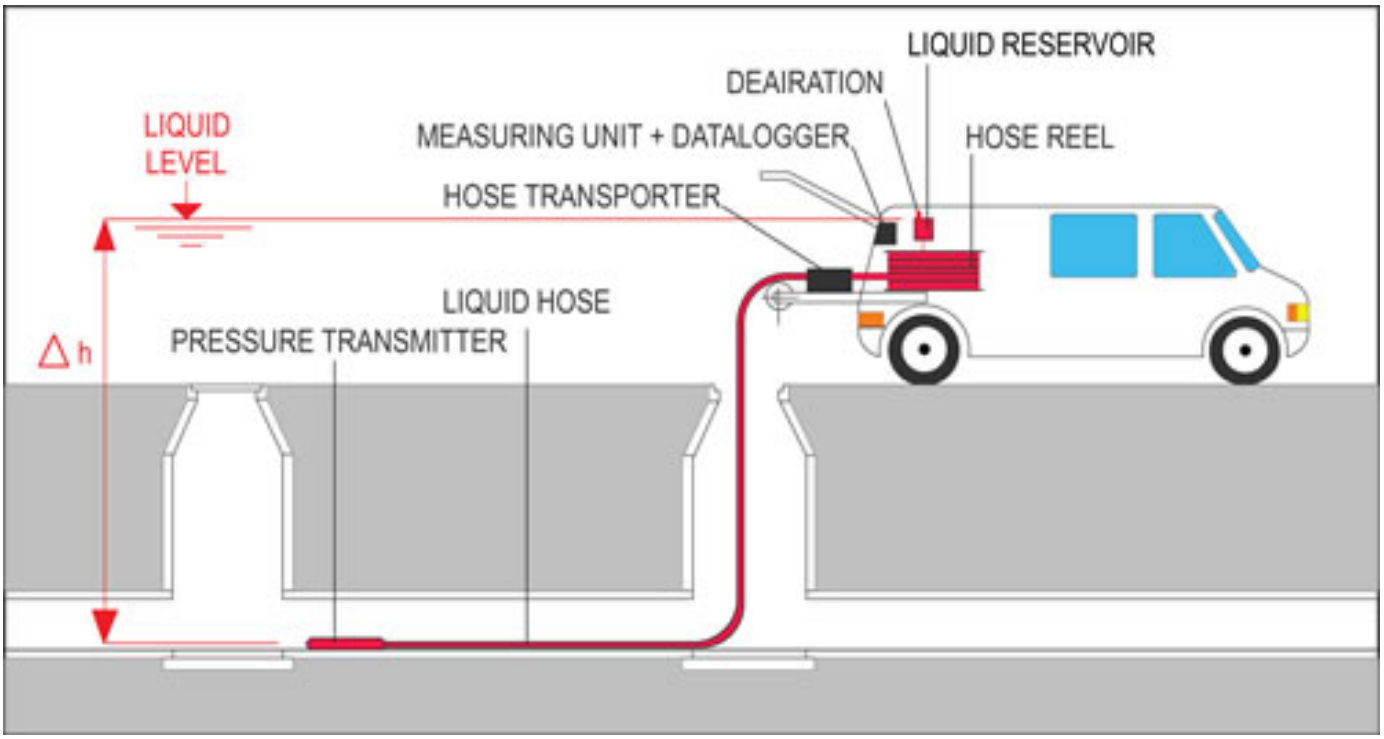
LPMH SYSTEM

- **Measuring the precise level / longitudinal profile of:**
  - **sewers**
  - **drain lines**
  - **other underground piping**
- **Monitoring settlement**
- **Inspection surveys**

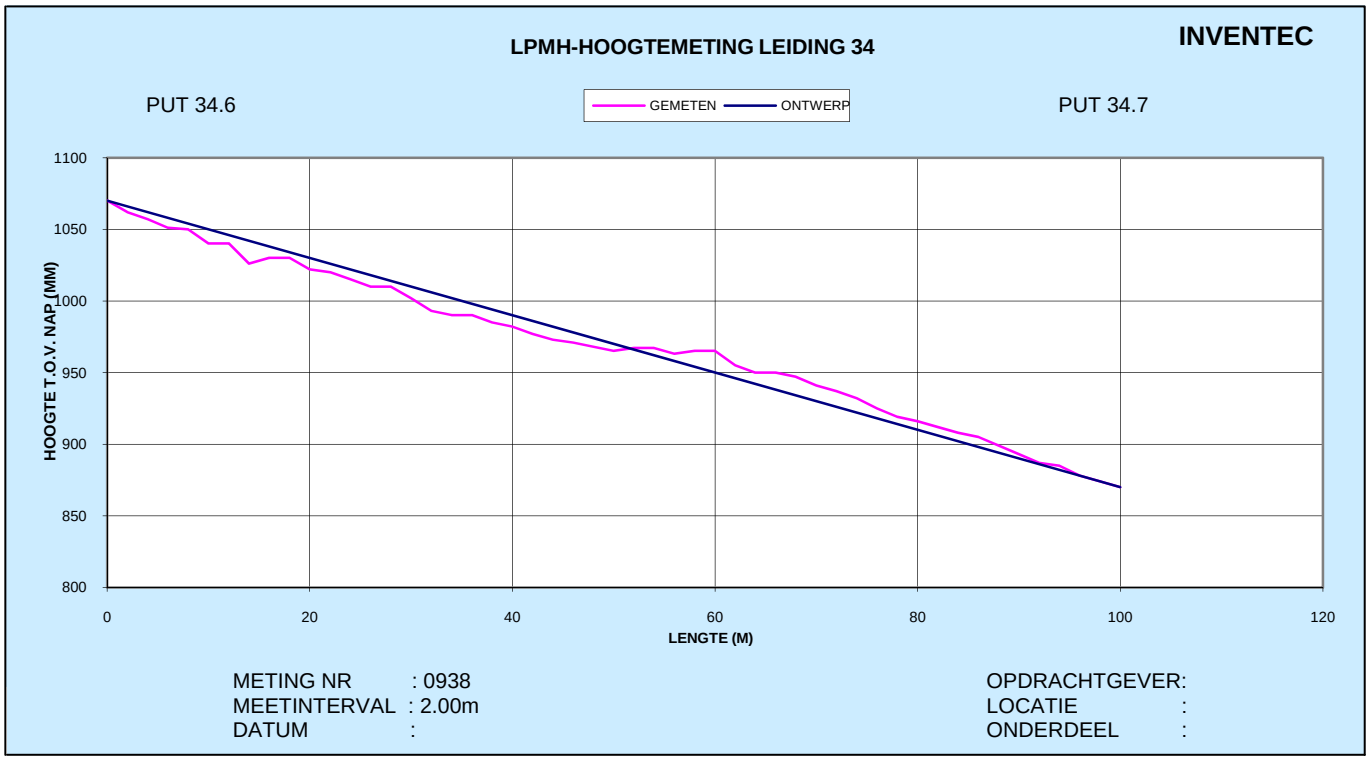
OPERATION

The system basically consists of a measurement probe containing a pressure transmitter that, via a hose on a reel, is connected to a liquid reservoir. The probe is pulled through the sewer or pipe line with intervals (e.g. 1,00m, 2,00m, 5,00m etc). Recording the hydrostatic pressure at each interval results in the relative profile of the pipe's level. By subsequently putting the probe on a fixed point outside the pipe it is possible to relate the pipe's profile to the national grid level. To ensure maximum accuracy each measurement is automatically compensated for variations in temperature and atmospheric pressure. The measurement vehicle is fitted with an automatic processor/data logger so that the readings can be made available right on the spot, if so required. By repeating the measurement with time intervals possible settlement of the pipe can be determined very accurately.



CHARACTERISTICS

- Integrated liquid system enables autonomous operation. No influence by local conditions at the measurement site.
- Whether the pipe is empty or (wholly or partly) filled with water does not make a difference.
- The sensor stops at each length interval, so the measurements are not affected by dynamic influences.
- Very accurate (+/- 1,5mm).



LPMH-HOOGTEMETING INVENTEC

Opdrachtgever:		Meting nr	: 0938
Locatie	:	Meetinterval	: 2,00m
Onderdeel	:	Leidinglengte	: 100m
Leiding nr	: 34	Leidingdia	: 300mm
Sectie	: 34.6 - 34.7	Leiding gespoeld	: ja/nee
Datum	:	Operator	:

ALLE HOOGTEMATEN ZIJN BINNENONDERKANT LEIDING

PUT NR.	AFSTAND (m)	HOOGTE t.a.v NAP ONTWERP (mm)	GEMETEN (mm)	AFWIJKING (mm)
34.6	0	1070	1070	0
	2	1066	1062	-4
	4	1062	1057	-5
	6	1058	1051	-7
	8	1054	1050	-4
	10	1050	1040	-10
	12	1046	1040	-6
	14	1042	1026	-16
	16	1038	1030	-8
	18	1034	1030	-4
	20	1030	1022	-8
	22	1026	1020	-6
	:	:	:	:
	:	:	:	:
	:	:	:	:
	:	:	:	:
	70	930	941	+11
	72	926	937	+11
	74	922	932	+10
	76	918	925	+7
	78	914	919	+5
	80	910	916	+6
	82	906	912	+6
	84	902	908	+6
	86	898	905	+7
	88	894	899	+5
	90	890	893	+3
	92	886	887	+1
	94	882	885	+3
	96	878	878	0
	98	874	874	0
34.7	100	870	870	0

MEASUREMENT REPORT

The measurement data are presented in both graphical and alphanumerical manner. In addition, the report is provided in digital format. The length interval can be selected by the client as desired.
By repeating the measurement with time intervals possible settlement of the pipe or sewer is immediately visible. If so desired, a settlement-versus-time diagram can be produced very simply for any point along the pipe.

A PROVEN CONCEPT

The LPMH-system is a well proven concept on the basis of countless measurements we have carried-out for our clients on infrastructural projects, at waste disposal sites and in the piping and sewage industry.

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