

Type of Precipitation	Internal	NWS Code	SYNOP ww Tab.4677	METAR/SPECI w'w' Tab.4678	SYNOP w <sub>a</sub> w <sub>a</sub> Tab.4680
Sensor error	0		-1 <sup>*</sup>	????? <sup>**</sup>	-1 <sup>*</sup>
No precipitation	1	C	00	NP	00
Precipitation (not identified <sup>****</sup> )	2	P-,P,P+	-2,-3,-4 <sup>*</sup>	-UP,UP,+UP	41,41,42
Drizzle (also freezing <sup>***</sup> )	3	L-,L,L+	51,53,55	-DZ,DZ,+DZ	51,52,53
Freezing drizzle (see drizzle <sup>***</sup> )	3	[ZL] L-,L,L+	[56,57,57] 51,53,55	[FZDZ] -DZ,DZ,+DZ	[54,55,56] 51,52,53
Drizzle with rain (also freezing <sup>***</sup> )	4	RL-, RL,RL+	58,59,59	-RADZ, RADZ,+RADZ	57,58,58
Rain (also freezing <sup>***</sup> )	5	R-,R,R+	61,63,65	-RA,RA,+RA	61,62,63
Freezing rain (see rain <sup>***</sup> )	5	[ZR] R-,R,R+	[66,67,67] 61,63,65	[FZRA] -RA,RA,+RA	[64,65,66] 61,62,63
Rain and/or drizzle with snow	6	RLS-,RLS, RLS+	68,69,69	-RASN, RASN,+RASN	67,68,68
Snow	7	S-,S,S+	71,73,75	-SN,SN,+SN	71,72,73
Ice pellets (see soft hail <sup>***</sup> )	9	[IP] SP	[79] 87,88,88	[PE/PL] GS	74,75,76
Snow grains (also ice prisms <sup>***</sup> )	8	SG	77	-SG,SG,+SG	77
Ice crystals /-needles (see snow grains <sup>***</sup> )	8	[IC] SG	[76] 77	[IC] SG	[78] 77
Soft hail ( also ice pellets <sup>***</sup> )	9	SP	87,88,88	-GS,GS,+GS	74,75,76
Hail	10	A	89,90,90	GR	89

**Table 6: Code table SYNOP / METAR**

\* Code comply not with table 4677 / 4680

\*\* Code comply not with table 4678

\*\*\* Definitions of table 4677/4678/4680 were not meet by liquid precipitation (determination freezing / not freezing), determination soft hail / ice pellets and snow grains / ice prism.

\*\*\*\* If this precipitation type is often detected, the sensor should be cleaned. Normally natural reasons (e.g. spider web) are responsible for this behaviour. This report should be managed as a error, therefore we recommend to not use this precipitation type and the intensity. In the same way the precipitation types drizzle and snow grains should not observed until the disturbance is eliminated, because they could be erroneous.

[...] Not identifiable / reference value i.e. code in brackets will be not transmitted.

<b>SYNOP intensities [mm/h]</b>	<b>Light</b>	<b>Moderate</b>	<b>Heavy</b>
Drizzle	≤ 0,2	> 0,2 ... 0,5	> 0,5
Rain, snow, unknown precipitation, sleet, drizzle with rain	≤ 0,5	> 0,5 ... 4,0	> 4,0
Ice pellets, soft hail	≤ 2,4	> 2,4 ... 12,0	> 12,0
Hail (only Tab.4677)	Particle < 8mm	Particle ≥ 8mm	

**Table 7: Intensity steps SYNOP**

<b>NWS/METAR/SPECI intensities [mm/h] [(inch/h)]</b>	<b>Light</b>	<b>Moderate</b>	<b>Heavy</b>
Drizzle	≤ 0,25 (≤ 0,01)	>0,25 ... 0,5	>0,5 (>0,02)
Rain, precipitation, drizzle with rain, sleet	≤ 2,5 (≤ 0,1)	>2,5 ... 7,6	>7,6 (>0,3)
Snow ,soft hail, snow grains Ice pellets	≤ 1,25 (≤ 0,05)	>1,25 ... 2,5	>2,5 (>0,1)

**Table 8: Intensity steps METAR**