

# DIN EN 16157-5:2020-11 (E)

## Intelligent transport systems - DATEX II data exchange specifications for traffic management and information - Part 5: Measured and elaborated data publications; English version EN 16157-5:2020

---

<b>Contents</b>	<b>Page</b>
European foreword .....	4
Introduction.....	5
1 Scope .....	6
2 Normative references .....	6
3 Terms and definitions.....	6
4 Symbols and abbreviations.....	7
5 Conformance .....	7
6 UML notation.....	8
7 The “RoadTrafficData” namespace .....	8
8 The measurement site table publication model.....	9
8.1 Overview of the measurement site table publication model.....	9
8.2 The “MeasurementSiteTablePublication” package.....	9
9 The measured data publication model.....	12
9.1 Overview of the measured data publication model .....	12
9.2 The “MeasuredDataPublication” package .....	12
10 The elaborated data publication model .....	13
10.1 Overview of the elaborated data publication model .....	13
10.2 The “ElaboratedDataPublication” package.....	13
11 The “Classes” package .....	15
11.1 Introduction .....	15
11.2 The “PhysicalQuantity” package .....	15
11.3 The “BasicData” package.....	17
11.4 The “DataValue” package.....	18
11.5 The “TrafficStatus” package.....	20
11.6 The “TravelTimeData” package.....	21
11.7 The “TrafficData” package.....	22
11.8 The “WeatherData” package.....	29
Annex A (normative) Data Dictionary.....	33
A.1 Overview.....	33
A.2 Data Dictionary for “RoadTrafficData” .....	34
A.2.1 “BasicData” package .....	34
A.2.2 “Classes” package.....	35
A.2.3 “DataValue” package .....	42
A.2.4 “ElaboratedDataPublication” package.....	43
A.2.5 “IndividualVehicleData” package .....	45

A.2.6	“MeasuredDataPublication” package .....	47
A.2.7	“MeasurementSiteTablePublication” package .....	48
A.2.8	“PhysicalQuantity” package .....	49
A.2.9	“TrafficConcentration” package.....	51
A.2.10	“TrafficData” package .....	52
A.2.11	“TrafficFlow” package.....	53
A.2.12	“TrafficGap” package.....	55
A.2.13	“TrafficHeadway” package.....	56
A.2.14	“TrafficSpeed” package .....	58
A.2.15	“TrafficStatus” package .....	60
A.2.16	“TravelTimeData” package.....	61
A.2.17	“WeatherData” package.....	63
A.3	Data Dictionary of <<D2Datatype>> for “RoadTrafficData” .....	66
A.3.1	Introduction .....	66
A.3.2	The <<D2Datatype>> “DensityVehiclesPerKilometre” .....	66
A.3.3	The <<D2Datatype>> “PassengerCarUnitsPerHour” .....	66
A.3.4	The <<D2Datatype>> “VehiclesPerDay” .....	66
A.4	Data Dictionary of <<D2Enumeration>> for “RoadTrafficData” .....	66
A.4.1	Introduction .....	66
A.4.2	The <<D2Enumeration>> “MeasuredOrDerivedDataTypeEnum” .....	66
A.4.3	The <<D2Enumeration>> “PhysicalQuantityFaultEnum” .....	68
A.4.4	The <<D2Enumeration>> “TimeMeaningEnum” .....	68
A.4.5	The <<D2Enumeration>> “TrafficStatusEnum” .....	69
A.4.6	The <<D2Enumeration>> “TravelTimeTrendTypeEnum” .....	69
A.4.7	The <<D2Enumeration>> “TravelTimeTypeEnum” .....	70
Annex B (normative)	Referenced XML Schema for “RoadTrafficData” .....	71
B.1	Overview .....	71
B.2	Schema .....	71
	Bibliography.....	86